Part II

PASSAIC RIVER STUDY AREA
DIAMOND ALKALI SUPERFUND SITE
02-BN

◆ PASSAIC VALLEY SEWERAGE COMMISSIONERS ("PVSC")

STUDY/REPORTS CONDUCTED BY PVSC ON VARIOUS COMPANIES

1) ALLIANCE CHEMICAL
2) ATLAS REFINERY, INC.
3) AUTOMATED ELECTRO-PLATING CO.
4) BARTH SMELTING & REFINING CORP.
5) B-LINE TRUCKING
6) BASF WYANDOTTE CORPORATION
7) BENJAMIN MOORE & CO.
8) CELLOMER CORP.
9) CHEMICAL COMPOUNDS, INC.
10) E.I. DuPont De Nemours & Co. (DUPONT)
(PITT-CONSOL CHEMICALS (CONOCO)
11) ELAN CHEMICAL COMPANY
12) ESSEX INDUSTRIAL CHEMICALS COMPANY
13) FAIRMOUNT CHEMICAL COMPANY
14) MONSANTO INDUSTRIAL CHEMICALS COMPANY
15) SERGEANT CHEMICAL COMPANY
16) SHERWIN-WILLIAMS CORP.
17) SUN CHEMICAL CORP.
18) U.S. INDUSTRIAL CHEMICALS COMPANY,
Div. National Distillers & Chem
19) VULCAN MATERIALS COMPANY, CHEMICALS DIVISION
20) WALTER KIDDE & CO.

- ☐ Arkansas Company, The
- ☐ Glidden Chemical
- ☐ _____
- ☐ _____
- ☐ _____

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

March, 1996

101765

849160242

BASF WYANDOTTE CORPORATION

849160247

Return to:
PASSAIC VALLEY SEWERAGE COMMISSIONERS
790 Broad Street
Newark, N. J. 07102

Date: August 3, 1972

Plant Ref. No. .....

WASTE EFFLUENT SURVEY

(For Industries Served by the Passaic Valley Sewerage Commissioners)

Plant Name: BASF Wyandotte Corporation

Address: 50 Central Avenue, Kearny, New Jersey Zip 07032

Person and Title to whom any further inquiries should be directed:

Mr. W. C. Kraemer, Environmental Manager

Phone No.: 201-589-1600

Number of Employees: 190

Number of Working Days Per Week: 7

Number of Shifts Per Day: 3

Area of Property: 25 Acres, or ..... Sq. Ft.

Type of Industry and 4 digit U. S. Standard Industrial Classification No.: 2818

Finished Product(s): Phthalic Anhydride, Dyestuffs and Dispersions

Average Production: 130 million lbs./year of major product

Raw Materials Used: Xylene, Sulfuric Acid, Caustic, Butyl Acrylate

Brief Description of Operations: This facility manufactures phthalic anhydride, organic dyestuffs, polymerized acrylic dispersions, and plasticizers.

849160243

Water received in *Gallons* (Note: multiply cu. ft. x 7.48)

Purchased water in 1971 from: City of Kearny, New Jersey

1st Quarter 20,000,000

2nd Quarter 26,600,000

3rd Quarter 45,800,000

4th Quarter 50,300,000

Total Purchased 1971: 142,700,000 gal.

Well Water

1st Quarter

2nd Quarter

3rd Quarter

4th Quarter

Total well water received in 1971: None

River Water

1st Quarter

2nd Quarter

3rd Quarter

4th Quarter

Total river water taken in in 1971: None

TOTAL OF ALL WATER RECEIVED IN 1971: 142.7 million gal.

Water Use in 1971:

Water to Product (include evaporated and lost water): 30.9 million gal.

Water to Sanitary Sewer: 111.8 million gal.

Water to Storm Sewer, River or Ditch: Rainfall, approx. 45"/year

TOTAL WATER USE IN 1971: 142.7 million gal.

Name of River, Stream, or Tributary, and location of storm sewer or ditch outlet to river, stream, or tributary: Passaic River, East Shore, 600 yds south of C.N.J. railroad bridge.

849160244

ANSWER THE FOLLOWING QUESTIONS ONLY IF THE PLANT WASTE INCLUDES WASTE ATTRIBUTABLE TO INDUSTRIAL OPERATIONS

(Note: Analyses should be based on a 24-hour composite sample)

Characteristics of Plant Waste discharged to sanitary or combined sewer, after treatment if any. Indicate units of measure where applicable (e.g. Mg/l).

a) pH: 7.80 b) Turbidity: >300

c) Temperature: Ambient d) Radioactive? Yes ..... No X

e) Solids Concentration:

1) Total Solids 2,966 Volatile 208 Mineral 2,758

2) Suspended Solids 68 Volatile ..... Mineral .....

f) Oil and Grease Concentration:

1) Floatable Oils 22.6

2) Emulsified Oils .....

g) Chlorides 105 mg/l

h) Chemical Oxygen Demand (C.O.D.): 311

i) 5-day Bio-chemical Oxygen Demand (B.O.D.): 75

j) Total organic carbon (T.O.C.): 82

k) Metallic Ions -Name and concentration (Important list each metal in waste, e.g., chromium hex. and triv. Antimony, Lead, Mercury, Copper, Vanadium, Nickel; give concentration and total daily discharge of each metal.)

No heavy metals involved in chemical processing. Microgram amounts of zinc from approved cooling water treatment compound are present.

l) Toxic Material--Name and concentration e.g., cyanide salts, etc.):

No highly toxic compounds are released.

m) Solvents—Name and concentration: Trace quantities, under 5 ppm of butyl acrylate occasionally present.

n) Resins—Name and concentration (Lacquers, Varnishes, Synthetics): Polymerized acrylate (colloidal organic solids) less than 50 ppm

o) Date and time span of sample 7/18-7/19/72 24 hours.

Explain hours, method of discharge of waste to Sanitary Sewer and peak rate of flow, e.g., (continuing for 8 hours per day, 5 days per week at 100 gal./day rate) (batch twice a day for 20 minutes at 100 gal./min.) (Continuous 24 hours steady or with peaks at 2 P.M., peak rate 3 M.G.D.) etc.

Discharge to sanitary sewer is continuous and constant over a 24 hour period. Approx. 5% reduction on weekends.

Characteristics of Plant Discharge to Storm Sewer, River, or Ditch, after treatment if any. Indicate units of measure where applicable (e.g., Mg/l).

a) pH: 3.2 b) Turbidity: 55

c) Temperature: Ambient d) Radioactive? Yes ..... No X

e) Solids Concentration:

1) Total Solids 470 Volatile 160 Mineral .....

2) Suspended Solids 36 Volatile ..... Mineral .....

f) Oil and Grease Concentration:

1) Floatable Oils 29.9

2) Emulsified Oils .....

g) Chlorides 50

h) Chemical Oxygen Demand (C.O.D.): 124

i) 5-day Bio-chemical Oxygen Demand (B.O.D.): 45

j) Total Organic Carbon (T.O.C.): 41

k) Metallic Ions—Name and concentration (Important—list each metal in waste, e.g., chromium hex. and triv. Antimony, Lead, Mercury, Copper, Vanadium, Nickel; give concentration and total daily discharge of each metal.):

Negligible quantities of iron oxide from site rain water drainage.

l) Toxic Material—Name and concentration (e.g., cyanide salts, etc.):

None

m) Solvents—Name and concentration:

None

n) Resins—Name and concentration (Lacquers, Varnishes, Synthetics):

None

o) Date and time span of sample: 7/18-7/19/72 24 hours.

Do you pretreat any waste before discharge? Scheduled for 4th Quarter of 1972

If so, describe process and disposal of residue removed: An oil skimmer will be installed to remove any oils in the storm sewer. Ultimate disposal to be made by a commerical chemical waste disposal firm.

Certification of Laboratory doing sampling and making analyses shall be given. Procedures shall be those shown in the 13th edition of Standard Methods for the Examination of Water and Wastewater, where applicable. If no procedure is applicable, the laboratory is to describe method and procedure used in analyses.

Wm. C. Kraemer PE

Signature and title of person preparing report

Environmental Manager
Colors and Chemicals Group

849160246

BENJAMIN MORE & CO.

116-4054

Benjamin Moore & Co. *Paints • Stains • Clear Finishes*

NEWARK PLANT • 134 LISTER AVENUE • NEWARK, NEW JERSEY 07105-4566 • (201) 344-1200 • FAX: (201) 344-2716

December 9, 1993

Mr. Frank D'Ascensio
Manager of Industrial
and Pollution Control
Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, NJ 07105

RE: Passaic Valley Discharge

Dear Mr. D'Ascensio:

On December 3, 1993, Mrs. Andrea Hall of the Division of Water/Sewer Utility, City of Newark, New Jersey visited the Newark Operation Benjamin Moore and Company at my request. During this visit we investigated the affect of a discharge of sewerage from a facility downstream from Newark Operations. Our observations reveal that although one of the relevant manholes was unobstructed there is a significant amount of silting in others. Severe silting exists somewhere in the sewer line within one to two hundred yards of the Newark Operations Physical Connection.

As a consequence of this silting Newark Operations has erroneously reported volumes of discharge downstream to your office every month. You are aware, Newark Operations is a zero point source discharge operation. Our reports resulted from an unintentional oversight. It was assumed the problem was caused by tidal effects on the sewer line. Only careful study revealed that this was not the case.

On Thursday, December 9, 1993, the City of Newark sent crews to clean the sewer line. We hope as a consequence of this effort that the sewer lines will be opened up. Ms. Andrea Hall is working closely with my office regarding this matter. Should their primary efforts be unsuccessful Ms. Hall assured me City of Newark would continue to provide the necessary assistance to completely resolve the matter.

We are formally advising your office by this communication that Newark Operations has had a problem. With your help we have hopefully resolved this problem. Once we have re-established "normal operation" (a few weeks discharge) we will contact your office for a formal meeting.

Should you have any questions please call.

Sincerely,

Charles J. Ilsley

Charles J. Ilsley
Chemist

MGR (FD) _____
RIVER (FC) _____
OPS (TM) _____
MONIT (MG) XL K
LAB (AM) _____
CJ follow up
12/13
_____
_____

CJI:mjb
cc: K. Marino, R. Fallon, Ms. Andrea Hall

114-3501

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NEWARK PLANT • 134 LISTER AVENUE • NEWARK, NEW JERSEY 07105-4566 • (201) 344-1200 • FAX: (201) 344-2716

December 17, 1992

Mr. Mario Graglia
Supervisor Monitoring & Surveliance
Industrial Department
Passaic Valley Sewerage Authority
Newark, New Jersey 07105

Dear Mr. Graglia:

As a consequence of a flooding condition sustained last Friday at the Benjamin Moore Plant, our LEL developed a depressed base line. The filters were changed because they were wet with water. Obviously water was sucked into the monitoring device during sampling.

Control Instruments, Fairfield, New Jersey is scheduled for Monday, December 21st, to make repairs and clean the instrument.

Nadine Peace was notified by telephone call on Tuesday, December 15th.

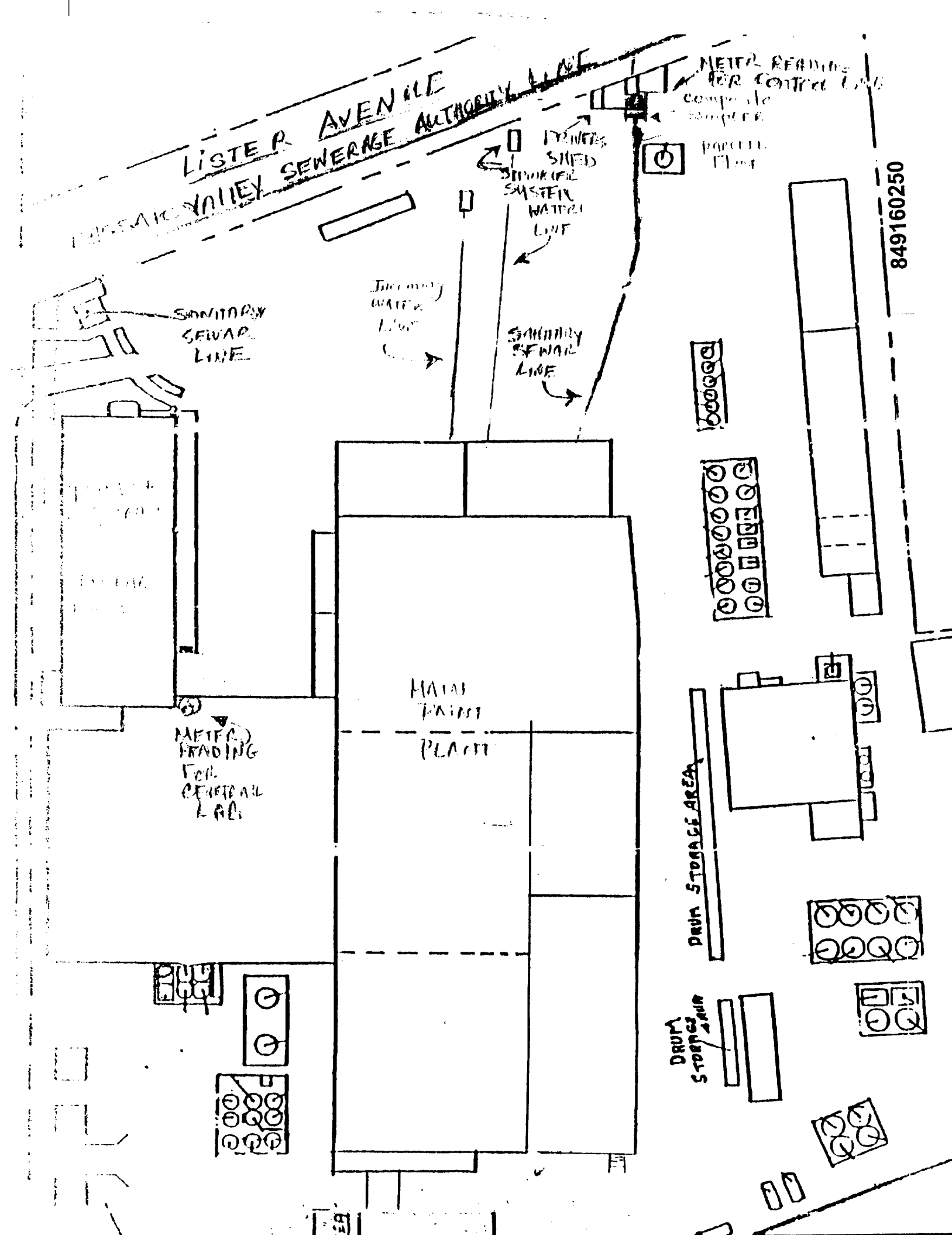
We will follow up with a letter to document the repair/cleaning of the instrument once this has occurred.

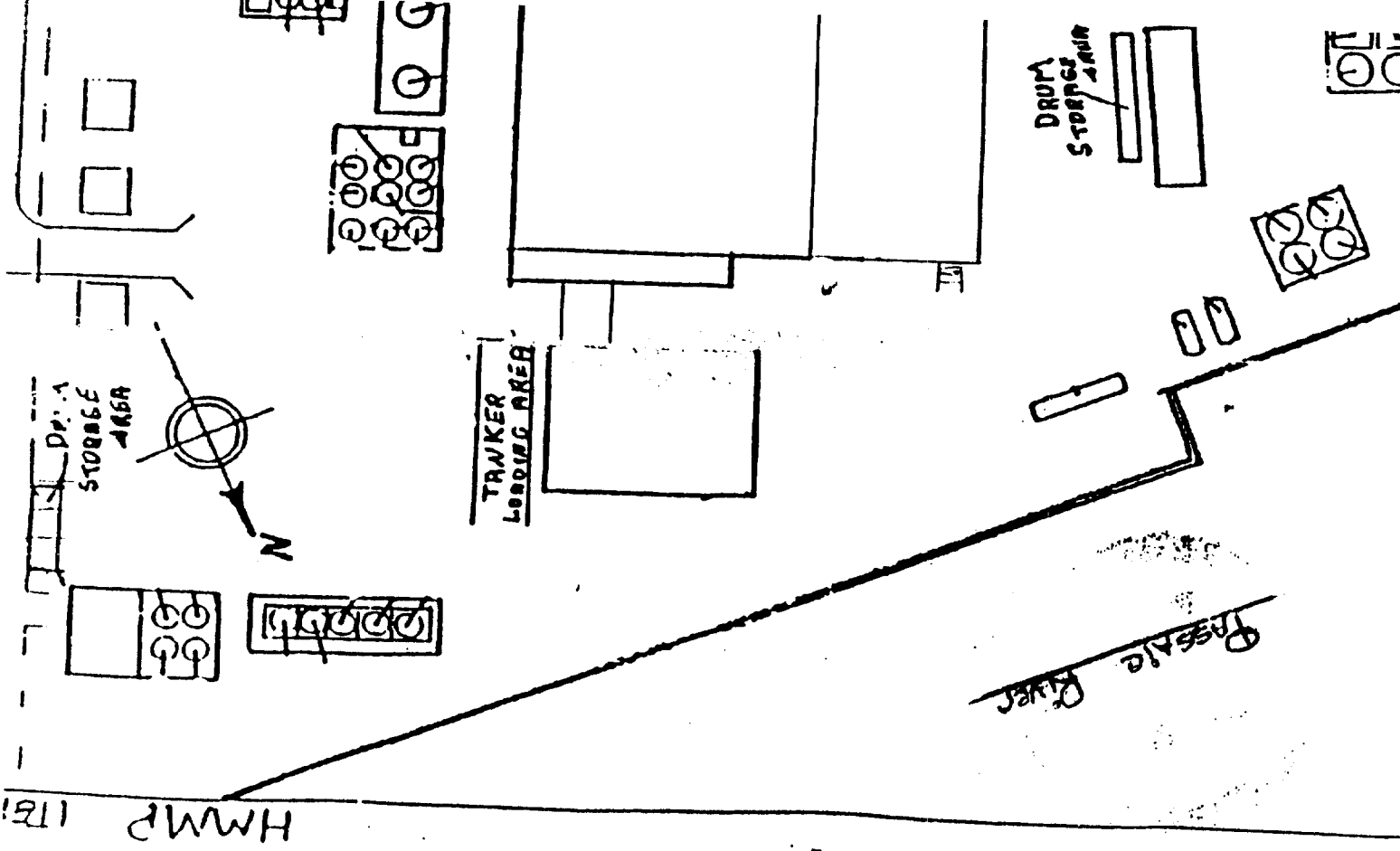
Should you have any questions or concern, please call.

Sincerely yours,

Charles J. Ilsley, Jr.
Process Chemist

CJI/je
cc: CMKaralis
RJFallon


LISTER AVENUE
SEWERAGE AUTHORITY LINE
METER READING FOR CONTROL
SANITARY SEWAR LINE
SANITARY SEWAR LINE
MAIN PAINT PLANT
METER READING FOR CENTRAL LAB
DRUM STORAGE AREA
DRUM STORAGE AREA
849160250


DRUM STORAGE AREA
TANKER LOADING AREA
DRUM STORAGE AREA
N

Benjamin Moore & Co.
PAINTS • VARNISHES • ENAMELS

MONTVALE, NEW YORK, NEWARK, BOSTON, RICHMOND, JACKSONVILLE, CHICAGO, ST. LOUIS, CLEVELAND, HOUSTON, BIRMINGHAM, DENVER, LOS ANGELES, SANTA CLARA, TORONTO, MONTREAL, VANCOUVER

134 LISTER AVENUE NEWARK, NEW JERSEY 07105

August 17, 1988

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Re: OCPSF Baseline Monitoring Report

Dear Sir:

We are in receipt of your August 9th letter advising us of additional information required on the above referenced report. Listed below are our responses to your request, numbered according to your Baseline Monitoring Report Checklist.

3c SIC number clarification

Our SIC code is 2851 (paint manufacturing, etc). While Category 40 CFR 414 does not list this SIC number we believe we are covered as a secondary producer of regulated material, alkyd resin.

3d Category and subpart

We are covered under Category 40 CFR 414 Subpart E.

4d&4e Flow diagram with regulated volumes and sample points

A revised flow diagram is attached.

5b Methyl Chloride and 4,6 Dinitro-o-cresol

Attached are Laboratory Reports from Garden State Laboratories (Lab #07044) which verify that no 4,6 Dinitro-o-cresol was present in the samples they tested. The Methyl Chloride was reported in the initial findings as Chloromethane, an acceptable synonym. The level of Chloromethane was negligible in all samples.

6a Out of compliance Toluene, Ethyl Benzene, Naphthaline and Benzene

We acknowledge that these chemicals were out of compliance in the samples tested. At this time we are using a revised system which does not result in any discharge to the sanitary sewer system. We are, therefore, in compliance. An air pollution control device permit is in the works for the new system, until it is received we do not consider the installation permanent.

Please contact the writer with any comments or if further clarification is required.

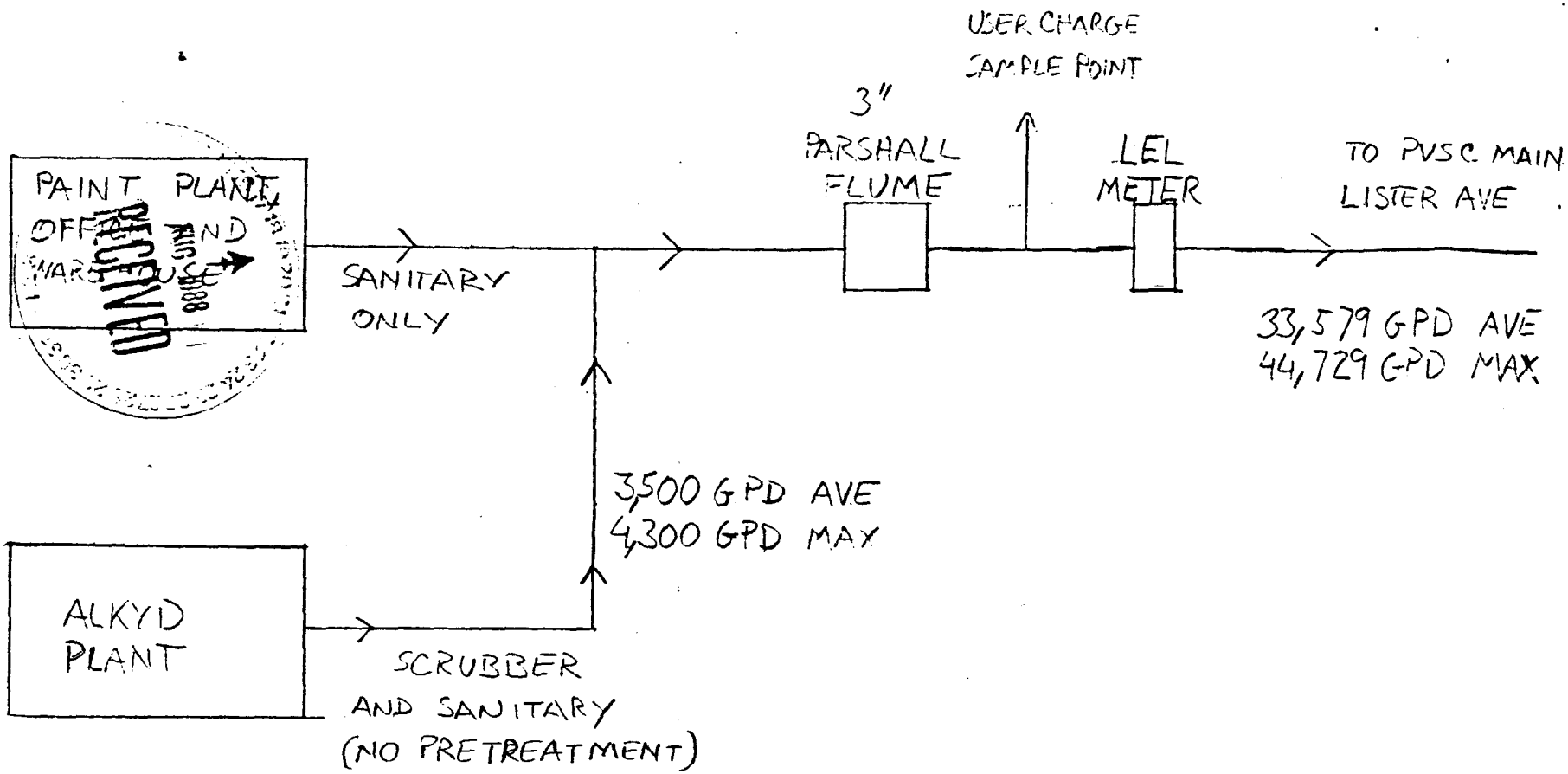
Very truly yours,

BENJAMIN MOORE & COMPANY

Carl B. Minchew
Plant Manager

Attachments

CBM/je



SANITARY SEWER FLOW DIAGRAM

BENJAMIN MOORE + Co.
134 LISTER AVE
NEWARK, NJ 07105

AUGUST 11, 1988 CBM

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

Telephone (201) 688-890(
Fax (201) 688-896(

MATHEW KLEIN, M.S., Director
HARVEY KLEIN, M.S., Lab. Supervisor

REPORT OF ANALYSIS
ACID EXTRACTABLE COMPOUNDS

REPORT # 80519068
CLIENT # M0001
DATE SUBMITTED: 5/19/88

TO: BENJAMIN MOORE & CO
134 LISTER AVENUE

NEWARK NJ 07105
ATT: LARRY BERG

SAMPLE TYPE: WATER
SAMPLE ID: OCPSF
SAMPLE LOCATION: @UECHILLE PLANT

DATE SAMPLED: 5/19/88 TIME SAMPLED:

COMPOUND	RESULT
4-CHLORO-3-METHYLPHENOL	<10.0
2-CHLOROPHENOL	<10.0
2,4-DICHLOROPHENOL	<10.0
2,4-DIMETHYLPHENOL	<10.0
2,4-DINITROPHENOL	<10.0
2-METHYL4,6-DINITROPHENOL	<10.0
2-NITROPHENOL	<10.0

COMPOUND	RESULT
4-NITROPHENOL	<10.0
PENTACHLOROPHENOL	<10.0
PHENOL	<10.0
2,4,6-TRICHLOROPHENOL	<10.0
4,6 DINITRO-O-CRESOL	NON DETECTED
DATE EXTRACTED	5/24/88
DATE ANALYZED	6/6/88

TEST RESULTS ARE IN PARTS PER BILLION.
<=LESS THAN, NONE DETECTED.
ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY, USEPA METHOD 625.
GC/MS RUN PERFORMED BY EMS LABS, #15548.

RECEIVED

849160255

Certified by U.S. Public Health Service, N.J. Dept. of Health and N.J.D.E.P. – Lab #07044

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

Telephone (201) 688-8900
Fax (201) 688-8966

MATHEW KLEIN, M.S., Director
HARVEY KLEIN, M.S., Lab. Supervisor

REPORT OF ANALYSIS
ACID EXTRACTABLE COMPOUNDS

REPORT # 80526020
CLIENT # M0001
DATE SUBMITTED: 5/26/88

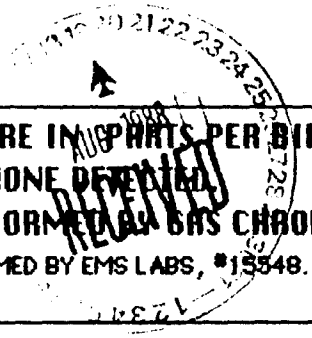
TO: BENJAMIN MOORE & CO
134 LISTER AVENUE

NEWARK NJ 07105
ATT: LARRY BERG

SAMPLE TYPE: WATER
SAMPLE ID:
SAMPLE LOCATION:

DATE SAMPLED: 5/26/88 TIME SAMPLED: 9:20 AM

COMPOUND	RESULT	COMPOUND	RESULT
4-CHLORO-3-METHYLPHENOL	<10.0	4-NITROPHENOL	<10.0
2-CHLOROPHENOL	<10.0	PENTACHLOROPHENOL	<10.0
2,4-DICHLOROPHENOL	<10.0	PHENOL	<10.0
2,4-DIMETHYLPHENOL	<10.0	2,4,6-TRICHLOROPHENOL	<10.0
2,4-DINITROPHENOL	<10.0	4,6 DINITRO-O-CRESOL	NON DETECTED
2-METHYL 4,6-DINITROPHENOL	<10.0	DATE EXTRACTED	5/31/88
2-NITROPHENOL	<10.0	DATE ANALYZED	6/10/88



TEST RESULTS ARE IN PARTS PER BILLION.
<=LESS THAN, NONE DETECTED
ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY, USEPA METHOD 625.
GC/MS RUN PERFORMED BY EMS LABS, #15548.

849160256

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

Telephone (201) 688-890
Fax (201) 688-896

MATHEW KLEIN, M.S., Director
HARVEY KLEIN, M.S., Lab. Supervisor

REPORT OF ANALYSIS
ACID EXTRACTABLE COMPOUNDS

REPORT # 80527016
CLIENT # M0001
DATE SUBMITTED: 5/27/88

TO: BENJAMIN MOORE & CO
134 LISTER AVENUE

NEWARK NJ 07105
ATT: LARRY BERG

SAMPLE TYPE: WATER
SAMPLE ID:
SAMPLE LOCATION:

DATE SAMPLED: 5/27/88 TIME SAMPLED: 9:00 AM

COMPOUND	RESULT
4-CHLORO-3-METHYLPHENOL	<10.0
2-CHLOROPHENOL	<10.0
2,4-DICHLOROPHENOL	<10.0
2,4-DIMETHYLPHENOL	<10.0
2,4-DINITROPHENOL	<10.0
2-METHYL4,6-DINITROPHENOL	<10.0
2-NITROPHENOL	<10.0

COMPOUND	RESULT
4-NITROPHENOL	<10.0
PENTACHLOROPHENOL	<10.0
PHENOL	<10.0
2,4,6-TRICHLOROPHENOL	<10.0
4,6 DINITRO-O-CRESOL	NON DETECTED
DATE EXTRACTED	5/31/88
DATE ANALYZED	6/10/88

TEST RESULTS ARE IN PARTS PER BILLION.
<=LESS THAN, NONE DETECTED.
ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY, USEPA METHOD 625.
GC/MS RUN PERFORMED BY ENSTLABS, #15548.

RECEIVED

849160257

Certified by U.S. Public Health Service, N.J. Dept. of Health and N.J.D.E.P. – Lab #07044

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

Telephone (201) 688-89
Fax (201) 688-89

MATHEW KLEIN, M.S., Director
HARVEY KLEIN, M.S., Lab. Supervisor

TO:

REPORT OF ANALYSIS
ACID EXTRACTABLE COMPOUNDS

REPORT # 80531000
CLIENT #
DATE SUBMITTED:

ATT:

SAMPLE TYPE: BLANK
SAMPLE ID: FOR SAMPLES EXTRACTED 5/31/88
SAMPLE LOCATION:

DATE SAMPLED: TIME SAMPLED:

COMPOUND	RESULT	COMPOUND	RESULT
4-CHLORO-3-METHYLPHENOL	<10.0	4-NITROPHENOL	<10.0
2-CHLOROPHENOL	<10.0	PENTACHLOROPHENOL	<10.0
2,4-DICHLOROPHENOL	<10.0	PHENOL	<10.0
2,4-DIMETHYLPHENOL	<10.0	2,4,6-TRICHLOROPHENOL	<10.0
2,4-DINITROPHENOL	<10.0	4,6 DINITRO-O-CRESOL	NON DETECTED
2-METHYL4,6-DINITROPHENOL	<10.0	DATE EXTRACTED	5/31/88
2-NITROPHENOL	<10.0	DATE ANALYZED	6/11/88

TEST RESULTS ARE IN PARTS PER BILLION.
<=LESS THAN, NONE DETECTED.
ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY, USEPA METHOD 625.
GC/MS RUN PERFORMED BY ENTECH LABS, #15548.

RECEIVED

849160258

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

Telephone (201) 688-89(
Fax (201) 688-89(

MATHEW KLEIN, M.S., Director
HARVEY KLEIN, M.S., Lab. Supervisor

TO:

REPORT OF ANALYSIS
ACID EXTRACTABLE COMPOUNDS

REPORT # 80524000
CLIENT #
DATE SUBMITTED:

ATT:

SAMPLE TYPE: BLANK
SAMPLE ID: FOR SAMPLES EXTRACTED 5/24/88
SAMPLE LOCATION:

DATE SAMPLED: TIME SAMPLED:

COMPOUND	RESULT	COMPOUND	RESULT
4-CHLORO-3-METHYLPHENOL	<10.0	4-NITROPHENOL	<10.0
2-CHLOROPHENOL	<10.0	PENTACHLOROPHENOL	<10.0
2,4-DICHLOROPHENOL	<10.0	PHENOL	<10.0
2,4-DIMETHYLPHENOL	<10.0	2,4,6-TRICHLOROPHENOL	<10.0
2,4-DINITROPHENOL	<10.0	4,6 DINITRO-O-CRESOL	NON DETECTED
2-METHYL4,6-DINITROPHENOL	<10.0	DATE EXTRACTED	5/24/88
2-NITROPHENOL	<10.0	DATE ANALYZED	6/12/88

TEST RESULTS ARE IN PARTS PER BILLION.
<=LESS THAN, NONE DETECTED.
ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY, USEPA METHOD 625.
GC/MS RUN PERFORMED BY MS LABS, #15548.

RECEIVED

849160259

Benjamin Moore & Co.
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MONTVALE, NEW YORK, NEWARK, BOSTON, RICHMOND, JACKSONVILLE, NUTLEY
CHICAGO, ST. LOUIS, CLEVELAND, HOUSTON, BIRMINGHAM, DALLAS, GIBBSBORO
DENVER, LOS ANGELES, SANTA CLARA, TORONTO, MONTREAL, VANCOUVER, BURLINGTON

134 LISTER AVENUE NEWARK, NEW JERSEY 07105-4566

NEWARK PLANT (201) 344-1200

June 27, 1988

Passaic Valley Sewer Commissioners
42 Wilson Avenue
Newark, New Jersey 07105

RE: OCPSF Baseline Monitoring Report, Addendum

Dear Sirs,

The attached Report from Garden State Laboratories, report of Volatile Organic Analysis May 26, 1988, was not included in our BASELINE MONITORING REPORT filed June 20, 1988.

The results were available and summarized in our cover letter, only the paper work was missing. Please include this report with our BMR.

We apologize for any inconvenience this may have caused, please contact the writer with any comments or questions.

Sincerely,

Carl B. Minchew
Plant Manager

CBM/ip

Our 105th Year

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

Telephone (201) 688-890
Fax (201) 688-896

MATHEW KLEIN, M.S., Director
HARVEY KLEIN, M.S., Lab. Supervisor

REPORT OF VOLATILE ORGANIC ANALYSIS

REPORT # 805260/0
CLIENT # M0001
DATE SUBMITTED: 5/26/88

TO: BENJAMIN MOORE & CO.
1361 LISTER AVENUE

NEWARK NJ 07105

ATT: LARRY BERG

SAMPLE TYPE: WATER
SAMPLE ID: TRIP BLANK
SAMPLE LOCATION:

DATE SAMPLED: TIME SAMPLED:

COMPOUND	RESULT	COMPOUND	RESULT
Chloromethane	<1.0	1,1,2 Trichloroethane	<1.0
Bromomethane	<1.0	cis-1,3 Dichloropropylene	<1.0
Dichlorodifluoromethane	<1.0	Benzene	<1.0
Vinyl Chloride	<1.0	2-Chloroethylvinyl ether	<1.0
Chloroethane	<1.0	Bromoform	<1.0
Methylene Chloride	<1.0	1,1,2,2 Tetrachloroethane	<1.0
Trichlorofluoromethane	<1.0	Tetrachloroethylene	<1.0
1,1 Dichloroethylene	<1.0	Toluene	<1.0
1,1 Dichloroethane	<1.0	Chlorobenzene	<1.0
trans 1,2 Dichloroethlylene	<1.0	Ethylbenzene	1.5
Chloroform	1.5	p-Xylene	4.7
1,2 Dichloroethane	<1.0	m-Xylene	4.5
1,1,1 Trichloroethane	<1.0	o-Xylene	<1.0
Carbon Tetrachloride	<1.0	1,2 Dichlorobenzene	<1.0
Bromodichloromethane	<1.0	1,3 Dichlorobenzene	<1.0
1,2 Dichloropropane	<1.0	1,4 Dichlorobenzene	<1.0
trans-1,3 Dichloropropene	<1.0	1,2,4 Trichlorobenzene	
Trichloroethlyene	<1.0	DONE BY GC/MS	6/10/88
Dibromochloromethane	<1.0		
Methyl tert-Butyl Ether	<1.0		
Isopropyl Ether	<1.0		

849160261

RESULTS ARE IN PARTS PER BILLION.
< LESS THAN, NONE DETECTED. ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY USING METHOD 624.

849160262

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

Telephone (201) 688 8900
Fax (201) 688-8966

MATHEW KLEIN, M.S., Director
HARVEY KLEIN, M.S., Lab. Supervisor

REPORT OF VOLATILE ORGANIC ANALYSIS

REPORT # 8052680A
CLIENT # MOOO1
DATE SUBMITTED: 5/26/88

TO: BENJAMIN MOORE & CO.
1341 STER AVENUE

NEWARK NJ 07105

ATT: LARRY BERG

SAMPLE TYPE: WATER
SAMPLE ID:
SAMPLE LOCATION:

DATE SAMPLED: 5/26/88 TIME SAMPLED: 9:20 AM

COMPOUND	RESULT	COMPOUND	RESULT
Chloromethane	<1.0	1,1,2 Trichloroethane	<1.0
Bromomethane	<1.0	cis 1,3 Dichloropropylene	<1.0
Dichlorodifluoromethane	<1.0	Benzene	9.1
Vinyl Chloride	<1.0	2-Chloroethylvinyl ether	<1.0
Chloroethane	<1.0	Bromoform	<1.0
Methylene Chloride	<1.0	1,1,2,2 Tetrachloroethane	<1.0
Trichlorofluoromethane	<1.0	Tetrachloroethylene	<1.0
1,1 Dichloroethylene	<1.0	Toluene	88.0
1,1 Dichloroethane	<1.0	Chlorobenzene	<1.0
trans 1,2 Dichloroethlylene	<1.0	Ethylbenzene	502.0
Chloroform	5.6	p-Xylene	1557.0
1,2 Dichloroethane	<1.0	m Xylene	1492.0
1,1,1 Trichloroethane	<1.0	o-Xylene	<1.0
Carbon Tetrachloride	<1.0	1,2 Dichlorobenzene	<1.0
Bromodichloromethane	<1.0	1,3 Dichlorobenzene	<1.0
1,2 Dichloropropane	<1.0	1,4 Dichlorobenzene	<1.0
trans-1,3 Dichloropropene	<1.0	1,2,4 Trichlorobenzene	
Trichloroethlyene	<1.0	DONE BY GC/MS	6/10/88
Dibromochloromethane	<1.0		
Methyl tert-Butyl Ether	<1.0		
Isopropyl Ether	<1.0		

RESULTS ARE IN PARTS PER BILLION.
< = LESS THAN, NONE DETECTED. ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY PER METHOD 624.

MEMORANDUM

TO: Mario Graglia

FROM: Nadine Peace NP

DATE: May 5, 1987

SUBJECT: **pH RESULTS**

The following company had low pH result:

		WO #	WO Date	Result
20403111	Benjamin Moore	I-31797	05/01/87	3.62*

*Analytical results not for enforcement purposes for internal use only.

NP/mc

114-8858

Benjamin Moore & Co.
PAINTS • VARNISHES • ENAMELS

MONTVALE, NEW YORK, NEWARK, BOSTON, RICHMOND, JACKSONVILLE, CHICAGO, ST. LOUIS, CLEVELAND, HOUSTON, PITTSBURGH, DEN, LOS, SANTA, TORONTO, MONTREAL, VANCOUVER

134 LISTER AVENUE NEWARK, NEW JERSEY 07105

ENGINEERING DEPARTMENT

June 12, 1986

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, NJ 07105

Attention: Mr. Joseph D. Gourley

Reference: Our Job #85-4, Sewerage Flash Point Monitoring

Dear Mr. Gourley:

With regard to the frequent high level alarms which we are experiencing with the LEL meter, our maintenance people had the distributor's engineer in to check over the instrument and it appears there may be a problem with the span adjustment, which could not be verified because the span gas cylinder is almost empty due, apparently, to a leak somewhere in the system.

If we continue to have problems after the instrument has been properly recalibrated it will become necessary for us to seal off the Parshall flume pit since it is quite evident that hydrocarbons in the ambient air are giving us a false alarm. At approximately 1:15 P.M. on Tuesday of this week the instrument was indicating a 60% level which of course signalled an alarm situation. There was a strong odor in the area which was familiar but which I could not identify, so I had one of our research chemists come to the area with his "educated" nose. He identified the aroma as an alcohol, probably a C-9 alcohol, an item which we do not use. The winds at the time were from the southeast and we assume that the vapors were being carried to our property by the air currents. This was confirmed by operating the zero/test push button which switches the instrument over to ambient air. Doing this resulted in no discernible change in the meter reading. I cannot imagine that what we were smelling was 60% of the LFL (LEL) so there is a good chance that the calibration is way out of adjustment. (The maintenance department is presently waiting for a replacement cylinder.)

114-8858

Incidentally, at the time of Tuesday afternoon's alarm I did check our resin plant operation to verify that nothing was being discharged from that source.

Very truly yours,

BENJAMIN MOORE & CO.

G. A. Lehnert

Garry A. Lehnert, P.E.
Chief Engineer

GAL:mjh

cc: Mr. Carl Minchew

DATE OF VISIT	January 8, 1985
COMPANY NAME	Benjamin Moore 344-1205
COMPANY REP	Gary Lehnert, Plant Engineer
PVSC REP	M. Gunster
PURPOSE	LFL Compliance

SUMMARY:

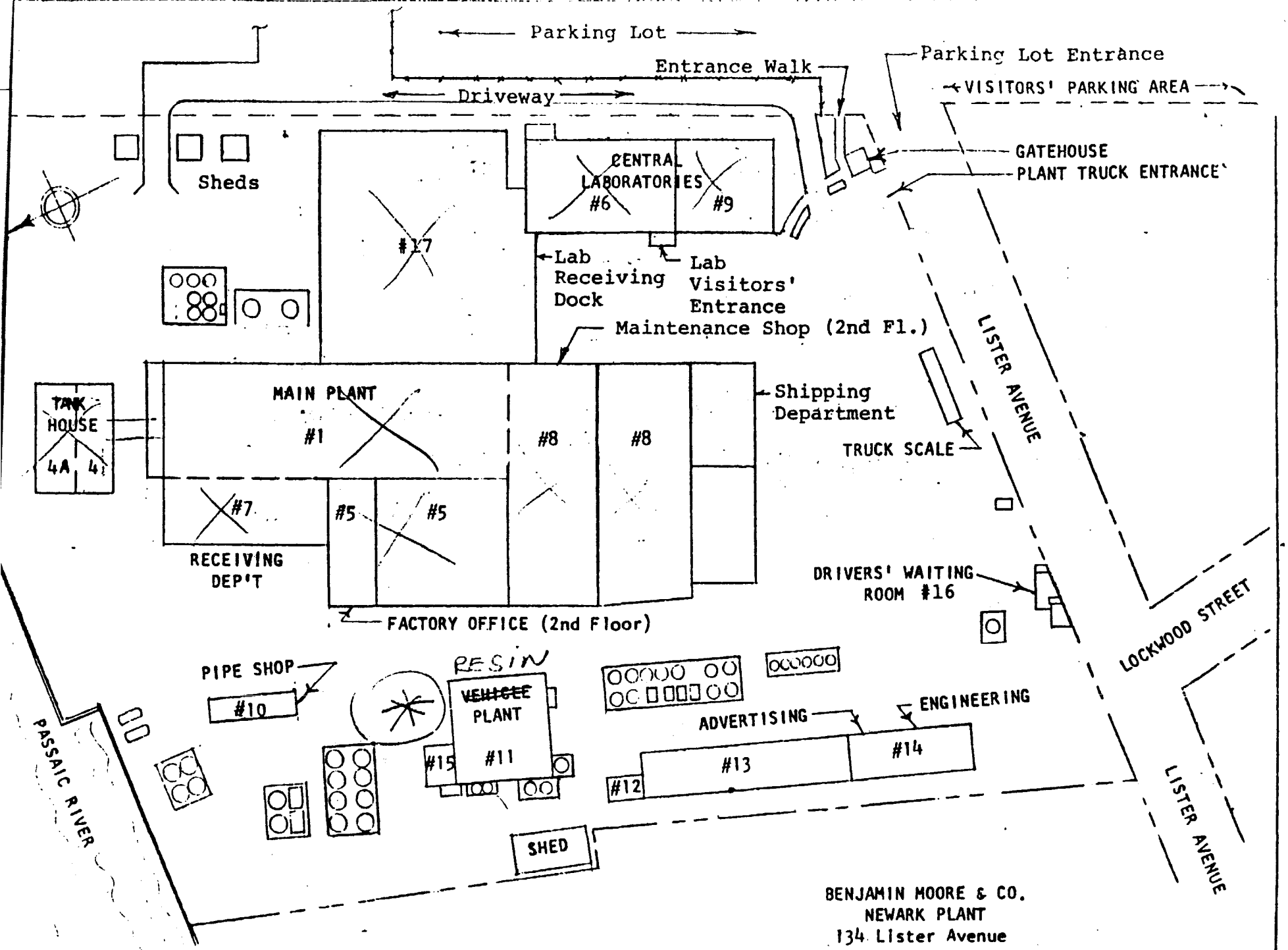
According to Mr. Lehnert the paint manufacture building numbers 1,4,5,7,8,17, have no floor drains or industrial outlet to the sewer.

Central R & D Lab buildings # 6 & 9 waste products that contain solvents are held in drums for proper removal. The company stores 160,000 gals class II flamable liquid category paint solvents. With a flash point of 100 to 140 ,F. This solvent is stored in dyked area with no sanitary sewer access. The only operation containing solvents that are discharged to PVSC is in the "Resen Plant #11. In the manufacturing of alkyd resins, there is a discharge of decanter water which contains approximately 1/10 of 1% "xylol or ethyl benzine." The company feels because this is the only source of solvent contaminated water and is only 160 gal/day roughly. They would like to discontinue the procedure of discharge to the sanitary sewer altogether and either recycle or generally reuse the liquid in a similiar paint batch.

Mr. Lehnert also noted that an LEL recorder would not register the flamable level of most of their stored solvents because of their high flush point. Mr. Lehnert would like to know if they discontinued discharge of all solvent water to PVSC, would that negate the need for a LEL meter.

M. Gunster

M. Gunster



DRAWN BY: GAL 12/20/71 Rev. 7/20/84
REV. 3/23/78

SCALE: 1"=100'-0"

DRAWING #A-4-140, Sheet #2

849160267

INDUSTRIAL WORK ORDER

DATE 6/22/81 WORK ORDER NO G-1232

COMPANY NAME BENJAMIN MOORE & Co

LOCATION 134 Lister Ave. Newark PERMIT NO. #2040 3112 — 2 outlets.

CONTACT Mr Lehnert

VIOLATION Y N U DISCHARGE VIOLATION CONTROL NO. ______

COMPLIANCE DUE DATE ______

TASK CODE

1. ☐ INSTALL SAMPLER(UC)
2. ☐ INSTALL SAMPLER (UC & PRT)
3. ☐ PICK-UP SPLIT SAMPLE (UC)
4. ☐ PICK-UP SPLIT SAMPLE (UC & PRT)
5. ☐ READ METER
6. ☐ DISCHARGE VIOLATION REVIEW
7. ☐ COMPLIANCE REVIEW
8. ☐ COMPLAINT
9. ☐ INTEREFERENCE/UPSET INVESTIGATION
10. ☒ OTHER

SPECIAL INSTRUCTIONS ______

ASSIGNED TO SABO BY M Graglia

DATE 6-22-81

TASK (S) COMPLETED (BY CODE) ______

LAB WORK ORDER ______ SAMPLE RECEIVED BY JC

LAB TEST REQUIRED ______

DESCRIPTION ~~[illegible]~~ – picked up ~~[illegible]~~ Hg samples for 6-22-81 – one sample original pH was 12.8 – investigation contained on seperate sheet

REPORT TO FOLLOW Y N

DATE 6-23-81 SIGNATURE John Sabo

REVIEWED BY M Graglia VERIFIED BY ______

DATE 6/23/81 DATE ______

849160268

File - Benj. Moore

- during the addition of HNO_3 for the Hg program, I noticed that the original pH for sample point #1 was 12. & Investigation led to this statement from the Company (Keith)

sample is drawn from bottom of sample pit which they believe is the overflow or backwash from the sewer lines in the area. On Saturday 6-27-81, Benjamin Moore is going to tap the line which empties into the pit in order to get a true sample. at that time, they will pump out the pit & try to determine if there is something laying on the bottom of the pit which is causing the high pH. They should have an answer next week

Bob
6/29/81

849160269

CELLOMER CORP.

849160284

PERMIT TRANSMITTAL SHEET

20403700

COMPANY NAME & ADDRESS: Cellomer Corp
46 Albert Ave
Newark

VOLUME: 0.43 MGD

NO. OUTLETS: One

TYPE OF BUSINESS: Mfg of alkyd resins and polymerized photo sensitive chemicals

NATURE OF DISCHARGE: High concentration of BOD

POTENTIAL PROBLEM AREAS

REMARKS: Louis Kaplan
V.P.

849160271

849160272

FORM APPROVED
OMB No. 158-R0100

FOR AGENCY USE

STANDARD FORM A-MUNICIPAL

SECTION IV. INDUSTRIAL WASTE CONTRIBUTION TO MUNICIPAL SYSTEM

Submit a description of each major industrial facility discharging to the municipal system, using a separate Section IV for each facility description. Indicate the 4 digit Standard Industrial Classification (SIC) Code for the industry, the major product or raw material, the flow (in thousand gallons per day), and the characteristics of the wastewater discharged from the industrial facility into the municipal system. Consult Table III for standard measures of products or raw materials. (see instructions)

1. Major Contributing Facility (see instructions)

Name	401a	CELLOMER CORP.
Number& Street	401b	46 ALBERT STREET
City	401c	NEWARK
County	401d	ESSEX
State	401e	NEW JERSEY
Zip Code	401f	07105

2. Primary Standard Industrial Classification Code (see instructions) — 402: 2821

3. Principal Product or Raw Material (see instructions)

			Quantity		Units (See Table III)
Product	403a	ALKYD RESINS AND PHOTO SENSITIVE CHEMICALS	403c	403e	
Raw Material	403b	GLYCERINE, VEGETABLE OIL ETHYLENE GLYCOL, SOLVENTS ACIDS AND ACETONE	403d	403f	

4. Flow Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
   - 404a: 16 thousand gallons per day
   - 404b: ☒ Intermittent (int) ☐ Continuous (con)

5. Pretreatment Provided Indicate if pretreatment is provided prior to entering the municipal system — 405: ☐ Yes ☒ No

6. Characteristics of Wastewater (see instructions)

	Parameter Name	COLOR	TS	TSS	TURB.	CHLOR.	SULFATES	BOD	COD	TOC
406a	Parameter Number	00100	00500	00530	00070	00940	00945	00310	00340	00680
406b	Value	25	12170	20.5	2.5	150	24	2630	22300	10590
	Hg									
	71900									
	.0005									

Renewal Application

Y XXXXX

Applicant is:
Corporation XX
Partnership
Other

PASSAIC VALLEY SEWERAGE COMMISSIONERS

SEWER CONNECTION APPLICATION

PART I - SECTIONS A-C

SECTION A: GENERAL INFORMATION

1. Company Name: CELLOMER CORPORATION

2. Location: 46 Albert Avenue
Newark, New Jersey Zip Code: 07105

3. Mailing Address: As above
Zip Code:

Name, title, address and telephone number of person to contact concerning information provided in this application:

4. Name of Contact Official: Mr. Louis Kaplan
Title: Vice President Phone No.: (201) 589-3875

5. Address: As above

6. Number of Employees - Full Time: 30 Part Time: N/A

7. Number of Work Days Per Week: 5
Number of Shifts Per Day: 3
Is production seasonal? No If so, explain: N/A

8. New Users Only: Indicate date user desires to commence operations:
N/A

9. If property is owned, indicate Lot and Block Numbers: 29-2448
November 25, 1980 Assessed Value: $287,400.00

10. If property is rented, indicate name and address of Landlord:
N/A

SECTION B: PRODUCT OR SERVICE INFORMATION

11. Brief description of manufacturing or other activity performed:
This is a chemical plant manufacturing two main lines of products. Basically, the type of reactions carried out are those of esterification and polymerization.

12. Principal raw materials used: Phthalic anhydride, Glycerine, Pentaerythritol, Vegetable Oil, Ethylene Glycol, Mineral Spirits + Aromatic Solvents (xylol & toluol) sulfuric acid, chlorosulfonic ac
aceton

13. Principal products or services: Manufacture of alkyd resins and polymerized photo sensitive chemicals.

849160273

SECTION C: WATER DATA

14. Water Received: Year 19 (Report Volume in Gallons)

	PURCHASED	WELL	RIVER	TOTAL
1st Qtr. 1981	640,000 ft^3	N/A	N/A	4,787,520 gal.
2nd Qtr. 1980	822,100 ft^3	N/A	N/A	6,149,719 gal.
3rd Qtr. 1980	842,500 ft^3	N/A	N/A	6,302,321 gal.
4th Qtr. 1980	932,600 ft^3	N/A	N/A	6,976,314 gal.

2nd Qtr 80-1st Qtr. 1981
19 GRAND TOTAL . . . . 24,215,875 gal.

NOTE: Cu. Ft. X 7.48 = Gallons

15. Name water supplier: City of Newark water Account#: 06-759-846 000

16. Is well water metered? NA Is river water metered? NA

17. Water Distribution: Year 19 80 (Report Volume in Gallons)

Use (List totals in gallons per year)

(a) sanitary sewer (include industrial & domestic) 20,410,375
(b) separate storm sewer, river, or ditch. . . . . N/A
(c) contained in product . . . . . NO
(d) evaporation. 3,800,000
(e) waste haulers. 5,500

Name, Address & Registration Number of Waste Haulers Used

NJT000027821 All Country Environmental Serice Corp. P.O. Box G, Glenwood, N.J.
NJD058117979 BFI Waste Systems 714 Div. St., Elizabeth, N.J. 07207

18. Is volume in 17 (a) measured? NO How? N/A

Certification:

The information contained in Part I of this application is familiar to me and, to the best of my knowledge and belief, such information is true, complete and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority to sign the application on behalf of the corporation.

Name of Signing Official: Stanley P. Eysmann

Title: President

Date

Signature

PART II - SECTIONS D-F

These sections must be completed if the Applicant:

(a) discharges more than 25 000 gallons per day of either domestic and/or industrial wastes to the sanitary or combined sewer, or,

(b) discharges toxic wastes or wastes which can have a significant impact on the PVSC treatment works.

Questions regarding the applicability of this form to your facility may be answered by contacting the Industrial Department of PVSC at 344-1800.

Company Name: CELLOMER CORPORATION

Location: 46 Albert Avenue, Newark, New Jersey 07105

SECTION D: OPERATIONAL CHARACTERISTICS

19. Discharge of industrial waste is continuous _____ or intermittent XX

20. Discharge of industrial waste occurs between the following hours: 24 Hrs.

21. Industrial Waste is, or may be discharged:

(a) only to the sanitary (or combined) sewer XX

(b) to both the sanitary (or combined) sewer and a separate storm sewer, river or ditch N/A

(c) NPDES Permit Number N/A

22. Describe seasonal variations, if any, giving dates, volumes, rates, hours,etc. Include variations in product lines which affect waste characteristics.

NONE

23. Describe any pretreatment process in use: Neutralization of inorganic acids with sodium hydroxide solution.

24. Describe any treatment process applied to raw water taken into the plant:

None except for water softener used for water treatment of boiler feedwater makeup.

25. Describe any processes used to recycle water: Utilizing a Marley, Single Cell, Cross. Flow Cooling Tower Model 8807P circulating at 500 GPM with 15°F.Δt

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

SECTION E: SEWER CONNECTION INFORMATION

26.

OUTLET * NUMBER	SEWER SIZE (INCHES)	DAILY FLOW (GALLONS)	CONTAINS INDUSTRIAL WASTE (YES OR NO)
	8"	1,640	Yes

See Ltr 3/27

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Attach a plot plan of the property, showing:

(a) all existing or proposed sewer and drain lines (including outlets to a storm sewer, river or ditch);

(b) sample point(s);

(c) details of the connection(s) to the municipal (or PVSC) sewer, including the distance and direction of each connection from the nearest street intersection.

*If only one outlet, leave blank.

Number multiple outlets starting with 1.

849160276

SECTION F: ANALYSIS OF INDUSTRIAL WASTE

27. Analysis listed below is based on a composite sample of industrial waste taken from the following outlets listed in Section E:

ONLY ONE OUTLET ---= NO AVERAGING

(See instructions for proportioning samples from more than one outlet)

28. Analytical Data: Concentration values are to be reported in mg/l (ppm) unless specified otherwise; analyze waste for those parameters marked with an asterisk (*), analyze waste for other parameters reasonably expected to be present. Code numbers are for internal use only.

REPORT TO THE NEAREST UNIT: X (EXAMPLE: 150 mg/l)		
CODE	PARAMETER	VALUE
* 0100	Color (Apha Units)	25
0200	Radioactivity (PL-1)	--
* 0500	Total Solids	12,170mg/L
* 0505	Total Volatile Solids	11,577mg/L
* 0510	Total Mineral Solids	593 mg/L
* 0530	Total Suspended Solids	7 mg/L
* 0540	Volatile Suspended Solids	7 mg/L
* 0550	Mineral Suspended Solids	Nil
* 0070	Turbidity (JTU)	2.5(NTU)
0550	Emulsified Oil or Grease	
* 0940	Chlorides	160 mg/L
* 0945	Sulfates	24 mg/L
* 0310	Biochemical Oxygen Demand (BOD)	4,150mg/L
* 0340	Chemical Oxygen Demand (COD)	22,300mg/L
* 0680	Total Organic Carbon (TOC)	10,590mg/L

REPORT TO THE NEAREST TENTH: 0.X (EXAMPLE 1.6 mg/l)		
CODE	PARAMETER	VALUE
0745	Sulfide	
0740	Sulfite	
8260	Surfactants (MBAS)	
* 9000	pH (standard units) (range)	2.66*
0625	Kjeldahl N as N	
0610	Ammonia as N	
0620	Nitrate as N	
0615	Nitrite as N	
0507	Ortho Phosphates as P	

*Due to organic acids

849160277

REPORT TO THE NEAREST HUNDREDTH: 0.XX (EXCEPT WHERE INDICATED) (EXAMPLE: 0.36 mg/l)		
CODE	PARAMETER	VALUE
1097	Antimony (Sb)	
1002	Arsenic (As)	
1022	Boron (B)	
1027	Cadmium (Cd)	
1034	Chromium Total (Cr)	
1042	Copper (Cu)	
1045	Iron (Fe)	
1051	Lead (Pb)	

REPORT TO THE NEAREST HUNDREDTH: 0.XX (EXCEPT WHERE INDICATED) (EXAMPLE: 0.36 mg/l)		
CODE	PARAMETER	VALUE
* 1900	Mercury (Report to 0.XXX)	Less than 0.0005mg/L
1067	Nickel (Ni)	
1147	Selenium (Se)	
1077	Siver (Ag)	
1102	Tin (Sn)	
1092	Zinc (Zn)	
4053	Pesticides (Report to 0.XXX)	
2730	Phenol	

29. Samples collected by: CELLOMER CORPORATION Date: February 2, 1981

30. Samples analyzed by: Keegan Technology & Testing Associates Date: 2/19/81

Products being manufactured when sample was collected: Alkyd Resins

Certification:

The information contained in Part II of this application is familiar to me and, to the best of my knowledge and belief, such information is true, complete, and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority to sign the application on behalf of the corporation.

31. Name of Signing Official: STANLEY P. EYSMANN

Title: PRESIDENT

Date

Signature

849160278

SECTION F: ANALYSIS OF INDUSTRIAL WASTE

27. Analysis listed below is based on a composite sample of industrial waste taken from the following outlets listed in Section E:

(See instructions for proportioning samples from more than one outlet)

28. Analytical Data: Concentration values are to be reported in mg/l (ppm) unless specified otherwise; analyze waste for those parameters marked with an asterisk (*), analyze waste for other parameters reasonably expected to be present. Code numbers are for internal use only.

REPORT TO THE NEAREST UNIT: X (EXAMPLE: 150 mg/l)		
CODE	PARAMETER	VALUE
* 0100	Color (Apha Units)	25
0200	Radioactivity (PL-1)	-
* 0500	Total Solids	12,170 mg/L
* 0505	Total Volatile Solids	11,577 mg/L
* 0510	Total Mineral Solids	593 mg/L
* 0530	Total Suspended Solids	7 mg/L
* 0540	Volatile Suspended Solids	7 mg/L
* 0550	Mineral Suspended Solids	Nil
* 0070	Turbidity (JTU)	2.5 (NTU)
0550	Emulsified Oil or Grease	-
* 0940	Chlorides	160 mg/L
* 0945	Sulfates	24 mg/L
* 0310	Biochemical Oxygen Demand (BOD)	4150 mg/L
* 0340	Chemical Oxygen Demand (COD)	22,300 mg/L
* 0680	Total Organic Carbon (TOC)	10,590 mg/L

REPORT TO THE NEAREST TENTH: 0.X (EXAMPLE 1.6 mg/l)		
CODE	PARAMETER	VALUE
0745	Sulfide	
0740	Sulfite	
8260	Surfactants (MBAS)	
* 9000	pH (standard units) (range)	2.66 *
0625	Kjeldahl N as N	
0610	Ammonia as N	
0620	Nitrate as N	
0615	Nitrite as N	
0507	Ortho Phosphates as P	

* due to organic acids,

849160279

REPORT TO THE NEAREST HUNDREDTH: 0.XX (EXCEPT WHERE INDICATED) (EXAMPLE: 0.36 mg/l)		
CODE	PARAMETER	VALUE
1097	Antimony (Sb)	
1002	Arsenic (As)	
1022	Boron (B)	
1027	Cadmium (Cd)	
1034	Chromium Total (Cr)	
1042	Copper (Cu)	
1045	Iron (Fe)	
1051	Lead (Pb)	

REPORT TO THE NEAREST HUNDREDTH: 0.XX (EXCEPT WHERE INDICATED) (EXAMPLE: 0.36 mg/l)		
CODE	PARAMETER	VALUE
* 1900	(Report to Mercury 0.XXX)	*less tha .0005 mg/L*
1067	Nickel (Ni)	
1147	Selenium (Se)	
1077	Siver (Ag)	
1102	Tin (Sn)	
1092	Zinc (Zn)	
4053	(Report to Pesticides 0.XXX)	
2730	Phenol	

29. Samples collected by: *Client* Date: _____

30. Samples analyzed by: *Keegan Technology & Testing Associates, Inc.* Date: *2-19-81*

Products being manufactured when sample was collected: _____

_____

tification:

- information contained in Part II of this application is familiar to me and, to best of my knowledge and belief, such information is true, complete, and accurate

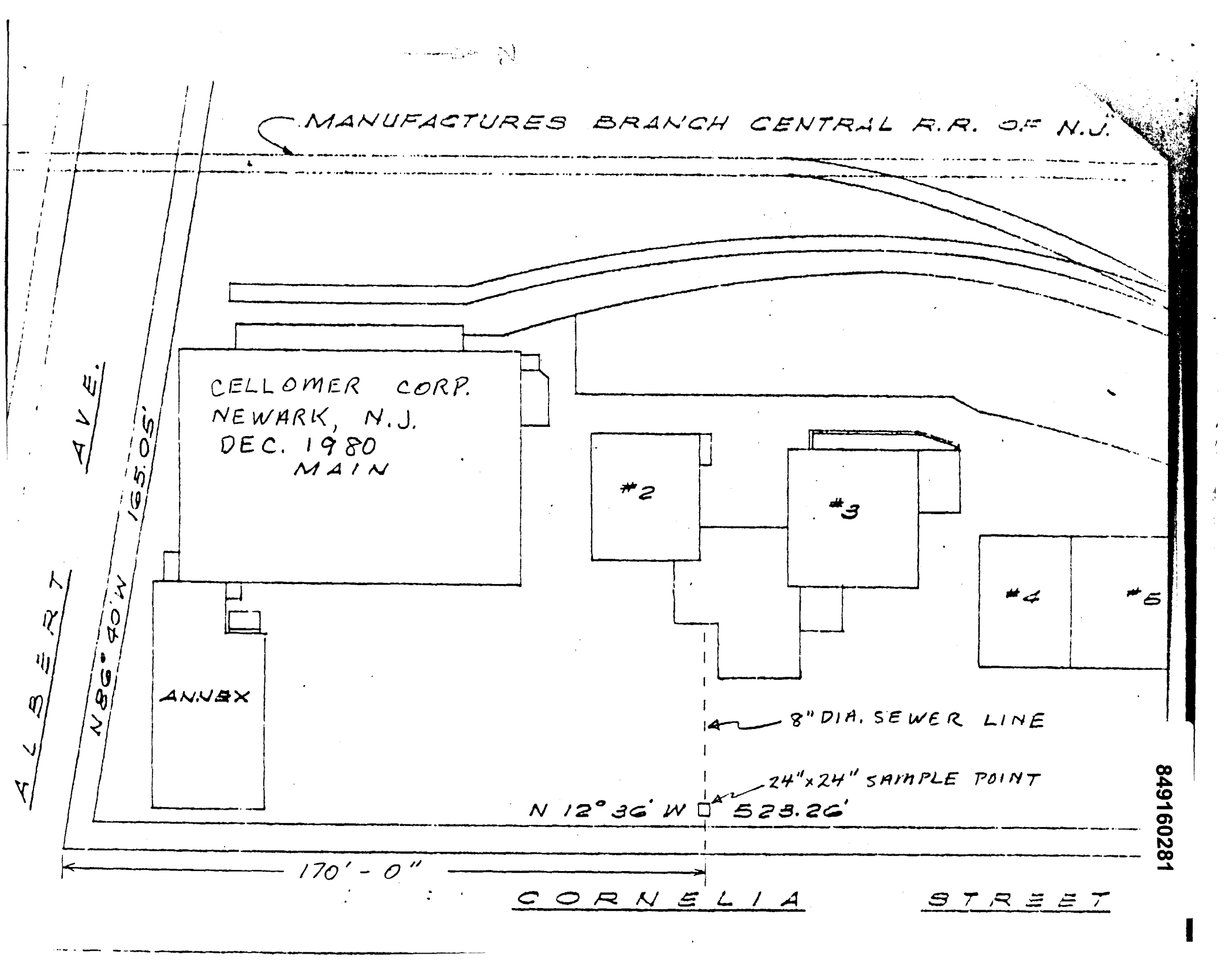
the applicant is a corporation, a corporate resolution is attached granting me the thority to sign the application on behalf of the corporation.

31. Name of Signing Official: STANLEY P. EYSMANN

Title: President

_____ _____

Date Signature


MANUFACTURES BRANCH CENTRAL R.R. OF N.J.
ALBERT AVE.
N 86° 40' W 165.05'
CELLOMER CORP.
NEWARK, N.J.
DEC. 1980
MAIN
#2
#3
#4
#5
ANNEX
8" DIA. SEWER LINE
24"x24" SAMPLE POINT
N 12° 36' W 523.26'
170'-0"
CORNELIA STREET
849160281

Renewal Applicant
Y or N

PASSAIC VALLEY SEWERAGE COMMISSIONERS

SEWER CONNECTION APPLICATION

PART I - SECTIONS A-C

Applicant is:
Corporation ✓
Partnership
Other

SECTION A: GENERAL INFORMATION

1. Company Name: Cellomer Corporation

2. Location: 46 Albert Avenue

Newark, New Jersey Zip Code: 07105

3. Mailing Address: As above

Zip Code:

Name, title, address and telephone number of person to contact concerning information provided in this application:

4. Name of Contact Official: Mr. Louis Kaplan

Title: Vice President Phone No.: 201-589-3875

5. Address: As above

6. Number of Employees - Full Time: 30 Part Time:

7. Number of Work Days Per Week: 5

Number of Shifts Per Day: 3

Is production seasonal? No If so, explain:

8. New Users Only: Indicate date user desires to commence operations:

NA

9. If property is owned, indicate Lot and Block Numbers: 29-2448

Nov. 25 19 80 Assessed Value: $287,400.00

10. If property is rented, indicate name and address of Landlord:

NA

SECTION B: PRODUCT OR SERVICE INFORMATION

11. Brief description of manufacturing or other activity performed:

This is a chemical plant manufacturing 2 main lines of products. Basically, the type of reactions carried out are those of esterification and polymerization.

12. Principal raw materials used: Phthallic anhydride, Glycerine - Pentaerythritol - Vegetable Oils - Ethylene Glycol, Mineral Spirits + Aromatic Solvents (xylol and toluol) sulfuric acid, chlorosulfonic acid, acetone

13. Principal products or services: Manufacture of alkyd resins and polymerized photo sensitive chemicals.

849160282

SECTION C: WATER DATA

14. Water Received: Year 19 (Report Volume in Gallons)

	PURCHASED	WELL	RIVER	TOTAL
1st Qtr. 11/6/78→2/5/79	702,000 Ft^3	NA	NA	
2nd Qtr. 2/6 → 5/7	432,200 "	"	"	
3rd Qtr. 5/7 → 8/9	397,400 "	"	"	
4th Qtr. 8/9 → 11/5	549,900 "	"	"	

1979 GRAND TOTAL . . . . 2,061,500 cu. ft.

NOTE: Cu. Ft. X 7.48 = Gallons 15,570,000 ga

15. Name water supplier: City of Newark water Account# 06-759-846 000

16. Is well water metered? NA Is river water metered? NA

17. Water Distribution: Year 1979 15,570,000 (Report Volume in Gallons)

Use (List totals in gallons per year)

(a) sanitary sewer (include industrial & domestic) 6,570,000
(b) separate storm sewer, river, or ditch. . . . . NA
(c) contained in product . . . . . NO
(d) evaporation. 9,000,000
(e) waste haulers. 5,500

Name, Address & Registration Number of Waste Haulers Used
NJT000027821 All Country Environmental Service Corpn. P.O. Box G, Glenwood, N.J. 07418
NJD058117979 BFI Waste Systems 714 Div. St. Elizabeth, N.J. 07207

18. Is volume in 17 (a) measured? No How? --

Certification:

The information contained in Part I of this application is familiar to me and, to the best of my knowledge and belief, such information is true, complete and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority to sign the application on behalf of the corporation.

Name of Signing Official: Stanley Eysmann

Title: President

1/19/81
Date

Signature

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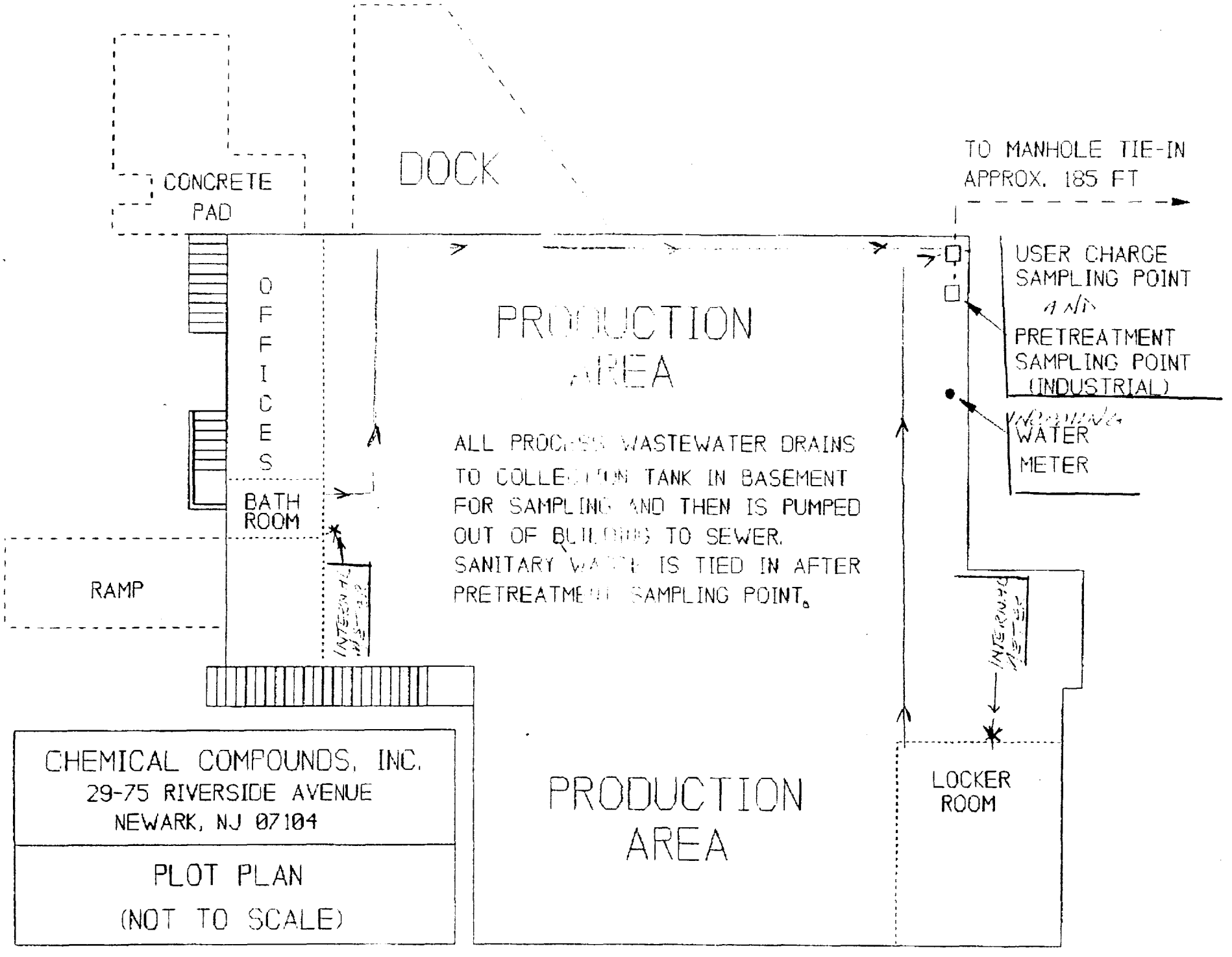
CHEMICALS COMPOUNDS, INC.

849160334



CHEMICAL COMPOUNDS, INC.
29-75 RIVERSIDE AVENUE
NEWARK, NJ 07104

PLOT PLAN
(NOT TO SCALE)

849160285

Present: J. Ambrosio – PVSC Counsel
A. Caltagirone – PVSC
S. Geller – Chem Comp Counsel
T. Sabo – " " Consultant
A. Celleri – " " President

849160286

3/10/95

Chemical Compounds – dye manufacturer (414)

Batch in 10,000 gal tank and release anavg of 3500 gpd
Stripped equipment + elim some sources of Ni, Pb, Zn + CN,
which were problematic.
CN showing up due to interferences. Have retained NJIT
to investigate. Sulfide interferences suspected.
While research is going on, MF I CN is still being done by
a certified lab.
As mentioned, after the talked about chlorinating the samples,
that this would give a CN(A) result, when they are regulated
for CN(T). They said the Cl2 is only being added to remove
the problem; they're using ISE method.
They said no way it's in raw material, or synergistically
being formed.
They stated that it is going to take NJIT some time to come
up with a solution. They want to comply + believe they are, but
the sample result is coming up high.
They bought an AA + have hired someone full time to find the
source. All raw materials are being checked.
They want to extend compliance asked for 12 mo (from
4/1/95 to 4/1/96) for CN, Pb, + Zn.
We will continue to write NOV as needed.
JA asked for a letter updating the issues, so that we
can amend permit. Force Majeur not really applicable.
Co gave handout showing effort + expenditure to date.
TCO (pg 5, no. 7) says that P/T upgrades constitute any pr. II
during TCO period. When JA gets letter, he'll send to
PVSC for comment.

Cyanide History

Date	Source	PPM MAX = 0.42	Water Consumption	Grams/Day MAX = 4.44
3/2/95	Same Sample as on 3/1, but this time to prevent nitrate interferences, we added sulfamic acid.	0.189		
3/1/95	10,000 gallon wastewater tank sample which contained 2 batches of NIINFA ML's, split w/ J. Sabo who sent samples to two other labs. (Once again, the absorbing NaOH solution appeared yellow and I suspected interferences, we checked the sample for sulfate/sulfites and oxidizing agents and it proved negative. But we don't have a way to test for nitrates and nitrites and NIINFA contains nitro-groups, therefore we are not confident in this result.	0.243		
2/13/95	HC Blue No. 2, Batch #152, same batch that we did lab filtration, so we sampled a 5 gallon pail for cyanide treatment studies .	0.24		
2/10/95	HC BLUE No. 2 ML's (In process, lab filtration to obtain mother liquors)	0.451		
2/7/95	February Monthly Wastewater Sample split with Chemtech for PVSC monthly. Performed a second time with a less vigorous boil, a more controlled vacuum, etc.(sample did not show as much color in NaOH soln.) CHEMTECH RESULTS: 0.876 PPM	0.059		
2/7/95	February Monthly Wastewater Sample split with chemtech for PVSC Monthly. (NaOH solution showed color upon distillation and suspected an interference, suspected cyanide stream was not part of this sample)	0.48		
2/2/95	4th attempt to prove accuracy of Cyanide Analysis, This time for a smaller concentration of 0.32 ppm. (Results Succeeded)	0.32 ppm		
2/1/95	3rd attempt to prove accuracy of Cyanide Analysis but this time using a 10 ppm solution which would be diluted to various dilutions and evaluated utilizing the dilution factors. (Results Succeeded)	10ppm		
1/27/95	2nd attempt to prove accuracy of Cyanide analysis using a 0.3ppm solution. (Results Failed Again)	0.22		
1/26/95	Prepared 0.3ppm solution to test accuracy of Cyanide Analysis.(Results Failed)	0.21		
1/21/95	Wasttank Sample Split w/ PVSC representative who visited the plant to sample for cyanide in 2 bottles on 1/19	0.06		
1/20/95	NDAPA Mother liquors of Batch #237, Split the sample w/ Chemtech for full analysis: Chemtech Results: TCN = 1.695ppm, Pb: 1.85 ppm, Zn: 2.09	0.12		

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1/17/95	HC Blue ML's of Batch #148 Treated for Cyanide in the Plant	.014		
1/17/95	HC Blue ML's of Batch #148	0		
1/12/95	HC Blue ML's of Batch #146	0.155ppb		
1/12/95	Caustic Soda Solution from Scrubber	0.116ppb		
1/11/95	HC Blue ML's of Batch #145	0.476ppb		
1/11/95	HC Blue ML's of Batch #144	0.596ppb		
1/10/95	Wastewater Monthly Compliance, split sample with PVSC	0.0		
1/9/95	HC Blue ML's of Batch #140 utilizing adjusted standard scale into micro grams cyanide(George's result on the same sample)	0.06 (George: 0.23)		
1/6/95	***Treated HC Blue ML's of Batch #140, (Adjusted pH to 5.72, Added 6 mL of NaHypoCl, adjust pH to 9.5, add 4 mL NaHypoCl, (Curve in mg Cyanide)	0.092 (George: 0.34)		
1/4/95	HC Blue ML's of Batch #141(Chemtech Analysis)	0.05		
1/3/95	***HC Blue ML's of Batch #140, First attempt at the cyanide analysis. Standard Curve in mg Cyanide.	0.02		
12/30/94	***HC Blue ML's of 12/30/94(Batch#140) George's Example Analysis (using mg cyanide on standard curve, didn't use the proper standard range, but I used the absorbance results and applied to a different standard curve***	0.064		
12/14/94	Wastewater, Monthly Compliance	.447	3320	5.617
12/06/94	HC Blue ML's after Cyanide Treatment #2	1.67	3320	20.99
11/07/94	Wastewater, Monthly Compliance	.257	3532 Gallons/Day	3.44
10/10/94	HC Blue ML's after Cyanide Treatment#1	0.47	4596	8.18
09/13/94	Wastewater, Monthly Compliance	0.03	3556	0.404
8/31/94	Wastewater, Monthly Compliance	0.05	5217	0.987
8/30/94	Wastewater Tank	0.17	5217	3.36
8/30/94	NHNFA Mother Liquors	0.038	5217	0.750
8/30/94	HC Blue Mother Liquors	2.0	5217	39.49
8/10/94	NHNFA Mother Liquors	0.03	5217	0.592
8/05/94	Wastewater, Monthly Compliance	1.65	5217	32.58
7/06/94	Wastewater, Monthly Compliance	0.14	5022	2.66
6/06/94	Wastewater, Monthly Compliance	0.14	4377	2.32
5/31/94	Wastewater ReSample	0.14	3968	2.10
5/29/94	Wastewater Resample	0.46	3968	6.90
5/10/94	Wastewater, Monthly Compliance	0.40	3968	6.00
4/11/94	Wastewater, Monthly Compliance	0.43	4266	6.94
3/11/94	Wastewater, Monthly Compliance	0.08	6530	1.98
2/10/94	Wastewater, Monthly Compliance	0.06	3050	0.693
1/10/94	Wastewater, Monthly Compliance	0.71	2214	5.95
12/09/93	Wastewater, Monthly Compliance	0.44	1712	2.85
11/09/93	Wastewater, Monthly Compliance	0.08	2926	0.866
10/12/93	Wastewater, Monthly Compliance	1.18	2427	10.84
9/21/93	Wastewater, Monthly Compliance	0.13	3054	1.50
8/20/93	Wastewater, Monthly Compliance	0.03	2658	0.302

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NOTES ON ZINC PROJECT

2/14/95: Tuesday: Sampled basement wastetank, after solids removal. After every sample I take of the wastetank, I am pumping the waste to the Methanol tank for storage. After this sample, I pumped the waste over to the tank. This sample had a concentration of 2.83 ppm. I also sample the drum full of the waste solids and water from the cleaning, but Sonia couldn't analyze solids, she noted that there was magnetic metals in the waste that attached to the magnetic stirrer. She also noted that there were oily layers in the waste. These components must be from the mechanics workshop.

2/16/95: Thursday: Sampled basement wastetank, and the basement sump. On this day the concentrations resulted respectively as follows, 0.5943 ppm, and 0.6164 ppm. Small concentrations of zinc can add up in the waste tank. I disconnected the sump pump in the basement to accumulate the water and then resample so that I can determine if the basement is primary source of zinc or not. And if so, where is it coming from?

2/17/95: Friday: Sampled the Scrubber Solution: (0.423ppm), basement tank(1.464ppm), 10,000 gal waste tank(0.612ppm), Cooling Tower(0.5796ppm), Blue ML's (0.474 ppm). The following actions were taken on Saturday. The floors were acid cleaned, and the waste was pumped directly out. The scrubber solution was disposed of . On Saturday, Carlos disposed of the waste ML's from the 10,000 gal tank.

2/21/95: Tuseday: This morning the guys were pumping our the cooling water tank and cleaning out all the rust and solids that accumulated. They refilled with new water. They also pumped out the caustic scrubber solution and made a new one. I sampled the basement sump which was full this morning, and I also sampled the basement tank which was also full. After sampling, I pumped out the tank and the sump to the MeOH tank. 10,000 gal tank is empty with solids on the bottom this morning. Today, Yellow No. 4 ML's should be produced. I told Carlos to give me a 5 gallon sample for full analysis.
Results: Basement Sump: 3.55 ppm and Basement Tank: 6.1 ppm.(Source must have been from the acid cleaning of the floors) As for the sump, some thing from the basement must contain zinc.

2/22/95: Wednsday: This morning I unplugged the basement sump pump again. I sampled the basement tank, (which probably contains alot of floor contamination because of ongoing acid floor cleaning): May get some main floor contaminants in basement sump because of disconnected drain. I also sampled the 10,000 gal. wastetank which contains only NOPD rework washes. The Methanol tank was completely filled today so we sampled and pumped the tank out about 4000 Gallons of accumulated floor drain water. I also sampled Beta Napthol for Zinc because it is one of the most spilled chemicals on the floors and it is organic and therefore probably isn't pure. I also sampled NFA which is the main solid raw material for BDN. Basement floor was cleaned today. Sump was cleaned out and pump cleaned also. Sampled BDN wet cake to see if zinc is in cake. Today will end the acid floor cleaning. I gave Sonia a sample of NOPD wet cake to run zinc tomorrow.
Results: Basement Tank: 7.8ppm and Methanol Tank: 3.142ppm: Beta Napthol, NFA(chinese and american), and the 10,000 gal wastetank had less than 0.5 ppm Zinc.

2/23/95: Thursday: Last night, Byron collected HC Yellow No. 4 Mother Liquors into the blue mixing tank. I have a pail of sample that I will send out to a different lab than ChemTech. Voas and SVoAs will be performed. Today Sonia will analyze the NOPD wet cake, basement tank, and Yellow No. 4 for Cyanide, Lead and Zinc. During the filtration of the second part of Batch #10 of Yellow No. 4, lines were having problems, so there was yellow #4 ML. contamination on the floor. 10,000 gallon tank contains some yellow No. 4 ML's also because mixing tank became full.
Results: NOPD wet cake appears to have less than 0.2 ppm zinc.
HC Yellow No. 4 ML's contain 1,825 ppm zinc.
Basement Tank: 4.515 ppm zinc

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I sampled the basement tank again at the end of the day to see if any more zinc accumulated because of the vigorous floor washings that took place today. Sonia will analyze it tomorrow.

*The zinc from the Yellow No. 4 ML's can be coming from the 5-nitro-2-amino phenol, or the 2 chloroethanol, or the caustic solution. Tomorrow we will sample the 5-nitro-2amino and the chloroethanol.

As for the continuing zinc in the basement tank, we will continue to clean the floors until no zinc is present for consecutive days.

The cyanide analysis performed on the yellow was not completed because the standard curve was wrong. However when the samples absorbance was measured, no cyanide would be present on any curve. Therefore it is a good assumption that there is no cyanide in yellow mother liquors.

2/24/95: Friday: Sonia is analyzing the 5-nitro-2-amino phenol and the ECH for zinc. This could be the source of zinc in the Yellow ML's. The amino phenol sample is from the lab from a long time ago and is not representative of the raw that was used in the production of yellow. Sonia is also analyzing a basement tank sample that was taken at around 4:30 pm yeseterday, which will show how much zinc accumulated during yesterdays production. The 10,000 gal tank is almost full now and it contains, NOPD rework water, HC Yellow #4 ML's, and reactor washes. The only expected source of zinc should come from the yellow.. We will conduct an analysis on the 10,000 gal tank today. We will also analyze the accumulated floor washings from last night and this morning in the basement tank. I disconnected the sump again to see if any zinc is coming from the basement floor. Therefore we are looking for the following results today:

1) Basement Tank from 4:30pm on 2/23: **5.483 ppm**
2) 5-Nitro 2-Amino Phenol: No Results
3) Ethylene Chlorohydrin: **8.0 ppb**
4) Basement Tank from 11:30am on 2/24: **3.91 ppm**
5) Basement Sump :2/24: **2.15 ppm**
6) 10,000 Gal Tank: **(NOPD rework, reactor wash, and Yellow4): .456 ppm**

2/27/95: Monday: On Saturday, the basement drainage system and floors were cleaned. All of the solids that accumulated in the drains were collected for disposal. I disconnected the sump pump again to see if the basement is giving zinc. I will sample the sump when it is full and the basement tank also. So far, the mother liquors of the products don't seem to be the source of zinc. The floors, tanks, spills of raws, may be the only source. I will continue to sample the 10,000 gal tank separate product ML's.
Results: 10,000 gal tank: 4.420 ppm , Basement Tank: 4.456 , Sump: no zinc detected, DNHA ML's : no zinc detected.

2/28/95: Tuesday: The results of the 10,000 gal tank were not pleasing and confusing. Where could the zinc be coming from in the tank. I will resample today. The following raws were requested to be sampled: Blanc Fixe for zinc, and OLIN NFA for zinc,lead,iron, and cyanide.
I will also sample the basement tank today.

3/1/95: Wednsday: Sampled the Methanol Tank and then discharged it. Sampled the 10,000 gal tank which contained mostly NHNFA mother liquors, and I sampled the sump and the basement tank.
Methanol Tank: 1.155 ppm, **10,000 gal. : .2512 ppm,** Sump: 1.061 ppm, Basement Tank: 1.593 ppm.

3/2/95: Thursday: Sampled the basement tank and the sump.
Basement Tank: 0.8598 ppm, Sump: 1.06 ppm

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3/3/95: Friday: Reactor B, which contained NPD was being washed by Pedro onto the floor and into the basement tank. Sump sample and basement sample.
I took a sample from the ammonia scrubber for cyanide and zinc.
Sump: 0.6042 ppm, Basement Tank: 1.053ppm

3/6/95: Monday: On Saturday the 10,000 gal tank was emptied. Today, NHNFA (batch #) is being pumped into the 10,000 gal tank. The mixing tank should contain yellow #2 ML's, and the drain tank is partially empty. The basement tank zinc levels have fluctuated and therefore need to be sampled continuously while studying plant operations . The sump zinc levels have decreased but still need sampling. The 10,000 gal tank needs sampling upon addition of new mother liquors. HC yellow No. 2 need a full analysis. I sampled the 10,000 gal tank, the basement tank , and the ammonia scrubber solution for zinc.
Results: 10,000 gal. tank: <0.07 ; Ammonia Scrubber solution: <0.0
Basement Tank: 5.206
** The absorbances read for the ammonia scrubber solution came out negative. This is not supposed to happen. How do we prevent this from happening?

3/7/95: Tuesday: Experimenting with the yellow 2 batch, added more water to dilute the ml's and separate the xylene layer and also dissolve any solids. I resampled and the samples contain a xylene layer. This stream will most likely have to pass through the carbon filtration system to remove xylene. I also sampled and discharged the Drain Tank. I am sampling the sump and the basement tank. I began collection at around 12:00 pm and will accumulate sump water and drain water for sampling. Plant Activities: The sump and basement tank did not accumulate by 5:00 so I left the sampling for Wednsday.

Drain Tank:

3/8/95: Wednsday: First thing in the morning, I sampled the basement tank, which was overflowing. And I sampled the sump which was just about full. As usual, I pumped the waste to the drain tank and began collection again at 11:00 am.

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

February 9, 1995✓

Mr. Alberto Celleri
Chemical Compounds, Inc.
29-75 Riverside Avenue
Newark, New Jersey 07104

Certified Mail
P 258 625 759

RE: NOTICE OF VIOLATION
PERMIT #: 20407122
VIOLATION DATE: DECEMBER, 1994
SECTION VIOLATED: 40 CFR 414
SNC-ZINC
SNC- TOLUENE
SNC-ETHYLBENZENE
SV-CYANIDE

Dear Mr. Celleri:

You are put on notice that your company is in violation of Federal Regulation 40 CFR 414 and Section 313.1 of the PVSC Rules and Regulations. A review of your MR-1 for December, 1994 revealed the following mass limit exceedances:

A sample for zinc taken by your company on 12/14/94 resulted in a mass loading of 29.03672 g/day, exceeding the daily maximum limit of 27.60502 g/day. Additionally, it exceeded the monthly average limit of 11.10547 g/day, by more than 20%.

A sample for cyanide taken by your company on 12/14/94 resulted in a mass loading of 5.58494 g/day. This exceeded the monthly average limit of 4.44219 g/day, by more than 20%.

A sample for toluene taken by your company on 12/14/94 resulted in a mass loading of 5.74737 g/day, exceeding the daily maximum limit of 0.78267 g/day. Additionally, it exceeded the monthly average limit of 0.29615 g/day, by more than 20%.

A sample for 2-nitrophenol taken by your company on 12/14/94 resulted in a mass loading of 0.74966 g/day. This exceeded the monthly average limit of 0.68748 g/day.

A sample for ethylbenzene taken by your company on 12/14/94 resulted in a mass loading of 2.99863 g/day. This exceeded the monthly average limit of 1.50188 g/day, by more than 20%.

You should be aware that a monthly average of all samples taken either by you or PVSC that is 20% or more above the monthly average limitation for a hazardous pollutant makes the violation a serious violation and that two (2) serious violations in any six month period would make a company a Significant Non Complier (SNC). In addition, four monthly average violations of any amount in any six month period would also make a company SNC. This would subject your company to mandatory minimum fines under the Clean Water Enforcement Act (CWEA). Based upon the explanation given above, your company has committed its third serious violation for zinc in a six month period (following those in August and November), as a defined by the Clean Water Enforcement Act, making your company SNC for this parameter. Chemical Compounds is also SNC for toluene and ethylbenzene. There was also a serious violation for cyanide.

This will also confirm that Chemical Compounds is operating pursuant to the terms and conditions of a Judicial Consent Order. The compliance date for lead, zinc and cyanide is no later than 04/01/95. Accordingly, so long as you adhere to the compliance schedule and other conditions set forth in the JCO, Chemical Compounds will not be subject to additional enforcement action or civil penalties for having violated the lead, zinc, and cyanide limitations of its permit. Toluene and ethylbenzene are not included in the JCO and are subject to additional enforcement action. In view of these violations a copy of this letter is being forwarded to the PVSC attorney.

If you have any questions please call Andy Caltagirone at (201) 817-5723.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Robert J. Davenport
Executive Director

RJD/mc

cc: Frank P. D'Ascensio
Gabriel M. Ambrosio, Esq.
City of Newark
Carmen DellaPia

CHEMICAL COMPOUNDS, INC.
Bisque Industrial Park
[illegible] Bisque Avenue • [illegible]
[illegible] • [illegible]

MGR (FD) _____
RIVER (FC) _____
OPS (TM) _____
MONIT (MG) YAE
LAB (AM) _____

FOURTH INTERIM COMPLIANCE REPORT

As per our Consent Order and Final Judgement, herein we provide our Fourth Interim Compliance Report which outlines the steps Chemical Compounds has taken to try and achieve compliance with discharge limitations of 40 CFR 414.

1. Chemical Compounds continues classifying and categorizing the variety of products manufactured at the facility. This continues to be a slow process as the wastewater from these products cannot be analyzed for potential problems until these compounds are produced and production is dependent upon the request and scheduling of customer orders. We now keep a daily summary of all of our sampling and research activities related to finding the sources of our problems.

2. Chemical Compounds continues to have problems in finding a treatment for what appears to be a complex cyanide compound which occurs occasionally in our wastewater and may be presenting interference problems for standard cyanide analytical methods. Our consultant, Hampton & Clarke, informed us that known treatment methods were not working and in some cases seemed to increase the concentration of cyanide in the sample after treatment. They are looking into a new E.P.A. analytical method which detects cyanide without interferences and may give us more information about our apparent problem. They are also looking into a high temperature treatment method to see if it could be a potential treatment for our wastewater.

3. Chemical Compounds has entered into an agreement with the New Jersey Institute of Technology Hazardous and Toxic Chemicals Environmental Lab to assist us in our overall efforts. NJIT offers their research and technical staff facilities to private companies.

4. Chemical Compounds has obtained a carbon filtration system to be put on line for filtering floor washing wastewater which may contain some volatile compounds. Floor washing wastestreams have been segregated to a separate holding tank for this treatment.

5. Based upon our efforts to date, Chemical Compounds believes that full control and elimination of potential sources of Lead, Zinc and Cyanide has not yet been achieved and that the possibility still exists for exceedences of our 40 CFR 414 Mass Limits used for compliance. Analytical results continue to fluctuated tremendously indicating that a problem still exists. Therefore, Chemical Compounds will continue our efforts with the assistance of our environmental consultants. We will be requesting an extension of our compliance date past April 1, 1995.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system, designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

Alberto Celleri, President 3/9/95
Date

CHEMICAL COMPOUNDS, INC.

Riverside Industrial Park
29-75 Riverside Avenue ● Newark, New Jersey 07104
(201) 485-3211-2 ● Fax: (201) 485-4870

March 3, 1995

Sudhi Mekherjee
New Jersey Institute of Technology
Environmental Engineering Lab
Newark, NJ 07102

Dear Sudhi:

Chemical Compounds Inc. agrees to the terms specified in your letter of proposal. We will pay $1,650.00 for the analysis of Total Cyanide by titrimetric, colorimetric and ion selective-electrode methods upon submital of the analytical report. Thank you for your assistance in our efforts to comply with the wastewater discharge regulations.

Sincerely,

Arturo Celleri

Cc: Alberto Celleri

849160297

NJIT
New Jersey Institute of Technology

NEWARK COLLEGE OF ENGINEERING
DEPARTMENT OF CIVIL AND
ENVIRONMENTAL ENGINEERING

A Public
Research University

Tel: (201) 596 2477
Fax: (201) 242 1823

March 3, 1995

Mr. Arturo Celleri
Chemical Compounds, Inc.
29-75 Riverside Ave.
Newark, NJ 07104

CHEMICAL COMPOUNDS, I...

Alberto Celleri
President

29-75 Riverside Avenue
Newark, NJ 07104

201 [illegible]
Fax # 201 [illegible]

Dear Mr. Celleri:

Thank you for showing me around your facility on March 2, 1995 and discussing with me the possibility of NJIT's participation in developing a treatment technology for the removal/reduction of cyanide in your manufacturing process effluent. The Environmental Engineering Laboratory contains all instrumentation and ancillary required to perform research and analysis of most domestic and industrial wastewaters. The resources of this research facility are further augmented by those of the Hazardous Substances Management Research Center (HSMRC) and the Northeast Hazardous Substances Management Center (NHSRC), both of which are located in NJIT.

As discussed in the telephone conversation on March 2, 1995, NJIT will collect a sample of the process wastewater, and analyze the sample for cyanide (Total Cyanide) concentrations using titrimetric, colorimetric and ion-selective electrode methods. The total cost for performing this analysis by the three different methods will be $1,650. If this is agreeable to you please send me a letter of contract so that we can start the work immediately. The cost of the analysis will be collected after we submit the analytical report and recommendations for future work/studies.

Sincerely yours,

Sudhi Mukherjee

cc: Dr. Spillers
Dr. Hsieh

UNIVERSITY HEIGHTS
NEWARK, NJ 07102-1982
201. 596. 2444/2447

TO: ANDREW CALTAGIRONE

FROM: WILLIAM F. CIFELLI

DATE: AUGUST 17, 1994

SUBJECT: CYANIDE-T VIOLATIONS
CAT: 414 OVER 1.2

Newark

COMPANY NAME	ID#	WO#	SAMPLE DATE	DATE COMP.	RESULTS	LIMITS
CHEMICAL COMPOUND	20407121	88376	7-20-94	7-27-94	2.1	OVER 1.2

CHEMICAL COMPOUNDS, INC.

Riverside Industrial Park
29-75 Riverside Avenue • Newark, New Jersey 07104
(201) 485-3211-2 • Fax: (201) 485-4870

111-3690

December 16, 1992

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, N.J. 07105

Attention: Mr. Carmine T. Perrapato

Dear Mr. Perrapato:

This is in response to your letter of December 7, 1992 in regards to OCPSF Compliance BMR.

It was determined that the Methylene Chloride reported was the results of metal cleaning compounds used in the machine shop. This use has been discontinued with no Methylene Chloride reported since August 1992.

We have investigated our raw material and chemical process. Based on this information, we have been unable to determine a specific source of the Toluene. However, the source may be as a by-product of one of our reactions of which we presently do not understand.

Therefore, we are immediately beginning a program to sample and analyze the waste waters of each step of all of our chemical synthesis.

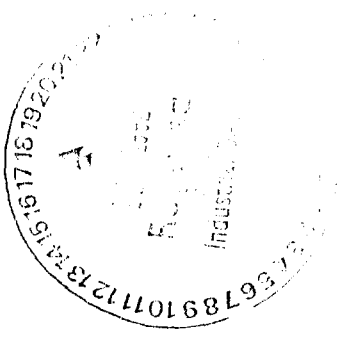
We have recently purchased a gas chromatograph which we put in service to assist with the analysis in the future. The first set of the product line samples will be analyzed by a certified laboratory. This program will start immediately and we will keep PVSC informed of our results.

Very truly yours,

Harold Sullivan

Harold Sullivan

File



849160300

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

December 7, 1992

Chemical Compounds, Inc.
29-75 Riverside Avenue Building #17
Newark, New Jersey 07104

Certified Mail
P 093 843 082

Attn: Harold Sullivan

RE: OCPSF COMPLIANCE BMR

Dear Mr. Sullivan:

As part of your BMR requirements, volatile organic compound samples were taken at your facility during the month from July through October, 1992. The following samples exceeded the concentration values listed in the regulation.

Sample Date	Parameter	Results (mg/l)	Comments
07/31/92	Toluene	0.555	Exceeded average and maximum values for July
08/28/92	Toluene	0.067	Exceeded average value for August
09/30/92	Toluene	0.194	Exceeded average and maximum value for September
10/23/92	Toluene	4.184	Exceeded average and maximum value for October
07/31/92	Methylene Chloride	0.582	Exceeded average and maximum value for July
08/28/92	Methylene Chloride	0.129	Exceeded average and maximum value for August

You should be aware that the OCPSF regulation is based on mass and that these results could put your company out of compliance with the mass limit. Passaic Valley Sewerage Commissioners is awaiting guidance from EPA which will enable us to make this determination.

In your non -compliance statement signed on 10/20/92, you had no explanation for the presence of either compound, and stated that a review of the contents of your raw materials was begun. Please respond to this letter in writing within 10 days with your findings. Failure to do so could result in enforcement action. Bear in mind that you should investigate the reason for any high result for a parameter regulated under 40 CFR 414 and make the necessary corrections.

If you have any questions concerning this matter, please call Mario Graglia at (201) 817-5724.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Carmine T. Perrapato
Executive Director

CTP/mc

cc: Robert Davenport, Deputy Executive Director
Frank P. D'Ascensio
City of Newark

File

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

October 9, 1992

Crum & Forster
6 Sylvan Way
P.O. Box 270
Parsippany, N.J. 07054

Attention: Ms. Caral J. Harrison

RE: NAPP-GRECO PIPELINE RENTALS

Dear Ms. Harrison:

This is in response to your letter dated September 29, 1992 to F. Quintieri, wherein you requested any documentation as to the source of what you claimed were noxious fumes at the Napp-Greco Company on January 7th and 8th, 1992. For your information, we are enclosing our Inspector's reports dated January 7 and January 9, 1992. We have no opinion as to the responsibility of this incident.

If you have any further questions about this matter, please call Mario Graglia at 817-5724.

Very truly yours,

Frank P. D'Ascensio
Manager of Industrial & Pollution Control

FPD/mc

cc: Carmine T. Perrapato, Executive Director
Robert Davenport, Deputy Executive Director

849160303

DATE OF VISIT:	1/7/92
COMPANY NAME:	Chemical Compounds, Newark
COMPANY REPS:	Harold Sullivan, President Alberto Celleri, Vice President
CRIMINAL JUSTICE:	Frank Bradley Vincent K. Cino Fern Siegel
DEPE EMERGENCY RESPONSE:	Matthew Garamone
NEWARK HAZMAT:	Battalin Chief, Anthony L. Apostolico
ENSI:	Fred Virazzi
PVSC REP:	R. Quintieri
PURPOSE:	Illegal Discharge

SUMMARY:

In response to a report by New Jersey Criminal Justice of an illegal discharge by Chemical Compounds, I was dispatched to investigate the situtation. Upon arrival to the facility at 1:30 pm, I spoke to Mr. Cino, Criminal Justice , who told me that the Maritime police had caught Chemical Compounds illegally discharging wastewater to the river and to the groundwater at the side yard. At the time of my investigation the company had stopped production and all discharges.

I began my investigation by inspecting his process area. There was still trace liquid from his wastewater discharge at the floor drain, the pH was bewteen 2 & 3. I informed Mr. Sullivan, the president of Chemical Compounds, that it was illegal to discharge any waste wastewater below 5.0. I also reminded him the Chemical Compound is not allowed to discharge any of their wastewater because the Company has elected to be considered a zero discharge regulated facility, and has been filing zero discharge reports. Mr. Sullivan stated the company has recently added an additional product line and was in the process of requesting an application to discharge.

Mr. Sullivan then referred me to Mr. Celleri , Vice President. Mr. Celleri stated that the spill in the process area was caused while the company was transferring the spent acetic acid from their centifuge which is used to remove the spent acid from his product to the CWM tanker located in the yard outside of the process area.

We then proceeded to the stairs outside of the process area where two 5000 gallon tank trailers are parked. Mr. Sullivan stated they pump their process wastewater to the tanker which is then shipped to Chemical Waste Management.

Examination of the yard showed several areas of surface water mixed with waste product. There was also an excavation surrounding their sewer line. Mr. Sullivan stated that the sewer was blocked. (The cause of the blockage was found to be a plug in the line by Napp Greco. The city directed Napp Greco to remove the plug).

The Criminal Justice Department required Chemical Compounds to hire ENSI to immediately remove the surface water and to make preparations to remove the contaminated soil. ENSI used a vaccum pump to pump the water into 55 gallon drums. When ENSI began pumping the wastewater, the Criminal Justices Officals felt that the situation was under control and left the facility.

RECOMMENDATION:

I recommend that Chemical Compounds be cited for discharging effluent waste below 5.0, discharging noxious odor and incorrectly reporting zero discharge. The company should also be directed to install a pH control system. I left a Sewer Connection Application with Mr. Sullivan.

R. Quintieri

RQ/mc

DATE OF VISIT:	1/9/92
COMPANY NAME:	Chemical Compounds, Newark
COMPANY REPS:	Harold Sullivan, President Alberto Celleri, Vice President
CRIMINAL JUSTICE:	Frank Bradley Fern Siegel
DEPE EMERGENCY RESPONSE:	Chris Gibbons
Newark Hazmat:	A. Apostolico
PVSC REP:	R. Quintieri
PURPOSE:	Alleged Illegal Discharge

SUMMARY:

In Response to a call by Ms. Siegel concerning another report of an illegal discharge by Chemical Compounds, I re-inspected the facility. At the time of my inspection, I found that the reason for the reported violation that Napp Greco was required to open the sewer line and the vinegar odor returned. It was determined that this was the result of the passage of wastewater through the line after the blockage was removed and was not a new violation. However, it also showed that Chemical Compounds had been discharging process wastewater into the sewer (see 1/7/92 report).

R. Quintieri

RQ/mc

849160306

10/11/92

Chemical Compounds

We did not act upon the Inspectors recommendation that the company be cited since the sewer line was plugged and there was no discharge to PVSC

The company was sent a letter stating that since they had a discharge they could no longer certify zero regulated discharge.

NJ2 - Newark

Crum & Forster Commercial Insurance

A XEROX Financial Services Organization

North Jersey Regional Office
6 Sylvan Way
P.O. Box 270
Parsippany, New Jersey 07054
201 285-0044
FAX 201 285-0837

September 29, 1992

F.A. Quintieri
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, NJ 07105

Re: The Napp-Grecco Pipeline Rentals
Date of Loss: 1/7/92
Claim No. NJU 80 031675 +

Dear Sir:

Please advise if you have any documentation as to the source of noxious fumes that affected ten (10) employees of the Napp-Grecco Company, 1500 McCarter Highway, Newark, New Jersey on January 7th and January 8, 1992.

It is my understanding you conducted an investigation. I would appreciate a report of the results of that investigation including your opinion as to causal relationship.

Did you determine the cause to be the responsibility of Napp-Grecco or their neighboring facility, Compound Chemicals?

Your assistance would be most valuable and appreciated.

Yours very truly,

Caral J. Harrison

Caral J. Harrison
Senior Claims Analyst

CJH/jan

849160308

DATE OF VISIT: 7/8/92

COMPANY NAME: Chemical Compounds, Newark

COMPANY REP: Harold Sullivan

PVSC REP: G. McLaughlin, A. Caltagirone

PURPOSE: Reponse to a Spill into Passaic River

SUMMARY:

On 07/08/92 the above company was visited in response to a spill into the Passaic River reported by Mr. Robert Swales of the City of Newark Office of Emergency Management. When we arrived we met Mr. Swales along with Mr. Apostolico, Chief of the Newark Hazmat Team. Chief Apostolico had the company shut down its operations after checking the pH and finding a 4.0, I checked the discharge into the river and found it to be a 3.0. According to Mr. Sullivan, President of Chemical Compunds, his company had recently obtained a permit to discharge into the PVSC system. It was this new sewer line that Chemical Compound had installed that apparently broke, and leaked into the storm drain which flows directly into the Passaic River. Mr. Sullivan had contacted his consultant, Enviro Comp Inc., and the construction company that installed the pipe will be there as soon as possible. Also, Chemical Compounds which manufacters organic dyes is in the process of installing a pH neutralization tank. At this point I recommend the following:

1. Site inspection - we noticed organics that were not properly stored.

2. Installation of PVSC pH recorder.

3. Follow up on equipment being installed and the construction of the sewer line.

G. McLaughlin

GM/mc

849160309

State of New Jersey
Department of Environmental Protection and Energy
Environmental Regulation
Wastewater Facilities Regulation Element
CN 029
Trenton, NJ 08625-0029

Scott A. Weiner
Commissioner

Dennis Hart
Administrator

APR 2 2 1992

Harold E. Sullivan, President
Chemical Compounds, Incorporated
Riverside Industrial Park
29-75 Riverside Avenue
Newark, New Jersey 07104

Re: Treatment Works Approval Determination
Chemical Compounds, Inc., 29-75 Riverside Avenue
City of Newark, Essex County

Dear Mr. Sullivan:

I am writing in response to your letter dated March 25, 1992, regarding the reconnection of an existing industrial building, from an existing private sewer which has been plugged with concrete, to an existing sanitary sewer within the industrial park. In your request, and subsequent letters dated March 30, 1992 and April 13, 1992, you have stated the following facts:

1. That the present amount of sewage generated from the existing building is approximately 770 gallons per day.

2. That the parties responsible for the proposed lateral are Chemical Compounds, Inc., and the owner of the Riverside Industrial Park, Industrial Developments, Inc.

3. That no future connections could be made to the proposed sewer lateral which will be a sewer line dedicated to the Chemical Compounds building only.

4. That this is the only property in this area without sanitary sewer service and that the neighboring properties are connected to an existing sanitary sewer main.

Based on the information submitted with this request, the Department of Environmental Protection and Energy will not require a Treatment Works Approval for the reconnection of the aforementioned building.

If you have any further questions on this matter, please contact Nicholas Horiates of my staff at (609) 984-4429.

Sincerely,

James Pontoriero

James Pontoriero, Supervising Engineer
Northern Section
Bureau of Construction and Connection Permits

WFR317
c: Passaic Valley Sewerage Commissioners
City of Newark

CHEMICAL COMPOUNDS - NEWARK 5/18 92

JUMP TO FILE - COMPANY HAS MANIFESTED WAS
SENT OUT TO C.W.M.
PER PHONE CONVERSATION HAROLD SULLIVAN
INFORMED HIM TO CORRECT SCA PAGES
32, 34
SAMPLING FOR VHC DONE WRONG ANALYSIS HIGH
CN(T) ANALYSIS HIGH
PH LOW
TTVO's HIGH
INFORMED HIM TO CONTACT THE DEP
(609) - 292-1637 DIV. WATER SUPPLY
HELEN PETTIT IF A CPI PACKAGE IS REQUIRED

SCA ON HOLD TILL IT IS DETERMINED IF
CPI PACKAGE IS REQUIRED.

Newark

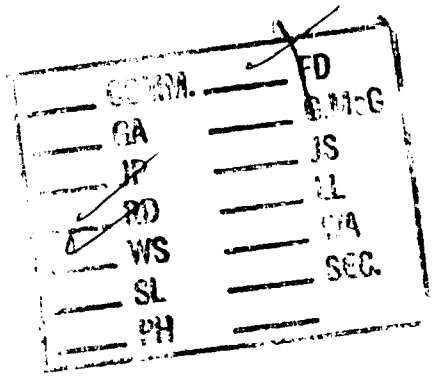
Sharpe James
Mayor

Department of Engineering

920 Broad Street
Newark, New Jersey 07102
(201) 733-8520

Alvin L. Zach P.E., L.S.
Director

FEB 1992



February 5, 1992

Harold Sullivan, President
Chemical Compounds Inc.
29-75 Riverside Avenue
Newark, New Jersey 07104

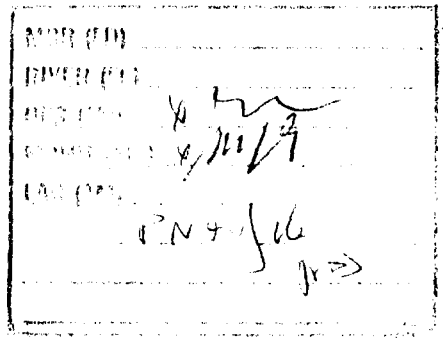
Dear Mr. Sullivan:

I have been informed that you contacted the Department of Land Use Control concerning your blocked sewer connector. I would advise you the City of Newark did not disconnect your sewer line. This was apparently done by your neighbor to the south, Napp Grecco Company. It would appear there is concrete in a manhole by the fence where your sewer line enters their property.

My staff has reviewed municipal sewer records and this line does not appear as a municipal sewer. Therefore, there will be no action by the City of Newark in this matter. I would recommend that you seek counsel for advice as to how to proceed to rectify this situation between private parties.

I would add that you should also request that PVSC allow you to tie a dedicated line from your facility into their interceptor which is just west of your current sewer line.

If you should need further assistance, please do not hesitate to contact me.



Very truly yours,

Alvin L. Zach, P.E., L.S., Director
Department of Engineering

ALZ/PB/cmc

cc: Sharpe James, Mayor
Glenn A. Grant, Acting Business Administrator
Edwin McLucas, Director, Department of Land Use Control
William Schwartz, Assistant Corporation Counsel
Millard Monroe, Manager, Division of Inspections
Daniel Berardinelli, Manager, Div. of Water/Sewer Utility
Deputy Chief Alfred Freda, Newark Fire Department
[redacted] Director, Passaic Valley Sewerage [redacted]

849160312

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

January 29, 1992

Chemical Compounds
29-75 Riverside Avenue
Newark, New Jersey 07104

Certified Mail
P 715 788 031

Attn: Harold Sullivan, President

RE: OCPSF MONITORING

Dear Mr. Sullivan:

On January 7, 1992, Passaic Valley Sewerage Commissioners received a report from the New Jersey Criminal Justice Department that there was an illegal discharge by your company into the Passaic River and to the ground outside in the yard. An inspector was sent to investigate. He met with representatives of your company, Criminal Justice, NJDEPE Emergency Response, Newark HazMat, and E.N.S.I.

Inspection of the process area revealed that there was wastewater discharged to the floor drain and that the pH was between 2-3. This material was found to be spent acetic acid from your centrifuge. Since your company processes are covered by the OCPSF regulation (40 CFR 414) and it has been demonstrated that you do indeed have a discharge, you can no longer certify zero regulated discharge. Therefore, you are hereby directed to submit an MR-1 report to PVSC with sample results for all regulated OCPSF parameters, starting with February, 1992. (Report for February is due by March 21, 1992). A copy of the MR-1 form is enclosed. Failure to do so could result in fines and other penalties. f you have any questions, please call Mario Graglia at (201) 817-5724.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Carmine T. Perrapato
Executive Director

FPD/mc

Enclosure

cc : Robert Davenport, Deputy Executive Director
Frank P. D'Ascensio

849160313

DATE OF VISIT:	1/9/92
COMPANY NAME:	Chemical Compounds, Newark
COMPANY REPS:	Harold Sullivan, President Alberto Celleri, Vice President
CRIMINAL JUSTICE:	Frank Bradley Fern Siegel
DEPE EMERGENCY RESPONSE:	Chris Gibbons
Newark Hazmat:	A. Apostolico
PVSC REP:	R. Quintieri
PURPOSE:	Alleged Illegal Discharge

SUMMARY:

In Response to a call by Ms. Siegel concerning another report of an illegal discharge by Chemical Compounds, I re-inspected the facility. At the time of my inspection, I found that the reason for the reported violation that Napp Greco was required to open the sewer line and the vinegar odor returned. It was determined that this was the result of the passage of wastewater through the line after the blockage was removed and was not a new violation. However, it also showed that Chemical Compounds had been discharging process wastewater into the sewer (see 1/7/92 report).

R. Quintieri

RQ/mc

DATE OF VISIT:	1/7/92
COMPANY NAME:	Chemical Compounds, Newark
COMPANY REPS:	Harold Sullivan, President Alberto Celleri, Vice President
CRIMINAL JUSTICE:	Frank Bradley Vincent K. Cino Fern Siegel
DEPE EMERGENCY RESPONSE:	Matthew Garamone
NEWARK HAZMAT:	Battalin Chief, Anthony L. Apostolico
ENSI:	Fred Virazzi
PVSC REP:	R. Quintieri
PURPOSE:	Illegal Discharge

SUMMARY:

In response to a report by New Jersey Criminal Justice of an illegal discharge by Chemical Compounds, I was dispatched to investigate the situtation. Upon arrival to the facility at 1:30 pm, I spoke to Mr. Cino, Criminal Justice , who told me that the Maritime police had caught Chemical Compounds illegally discharging wastewater to the river and to the groundwater at the side yard. At the time of my investigation the company had stopped production and all discharges.

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RECOMMENDATION:

I recommend that Chemical Compounds be cited for discharging effluent waste below 5.0, discharging noxious odor and incorrectly reporting zero discharge. The company should also be directed to install a pH control system. I left a Sewer Connection Application with Mr. Sullivan.

R. Quintieri

RQ/mc

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N. J. 07105
(201) 344-1800

May 6, 1988

Harold Sullivan, Pres.
Chemical Compounds Inc.
29-75 Riverside Avenue
Newark, NJ 07104

RE: PVSC Interceptor Inspection

Dear Mr. Sullivan.

The PVSC Interceptor Inspection referred to in our letter of April 26, 1988 has been rescheduled to take place on Monday May 16, 1988. We again request, in order to protect the safety of our employees, that you refrain from discharging any process waste water that would include quantities of volatile substances in such amounts as to prevent entry into the sewer from 10:00 pm on Sunday May 15, 1988 through 5:00 am on Monday May 16, 1988. Thank you for you cooperation.

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Carmine T. Perrapato
Executive Director

cc: Frank P. D'Ascensio

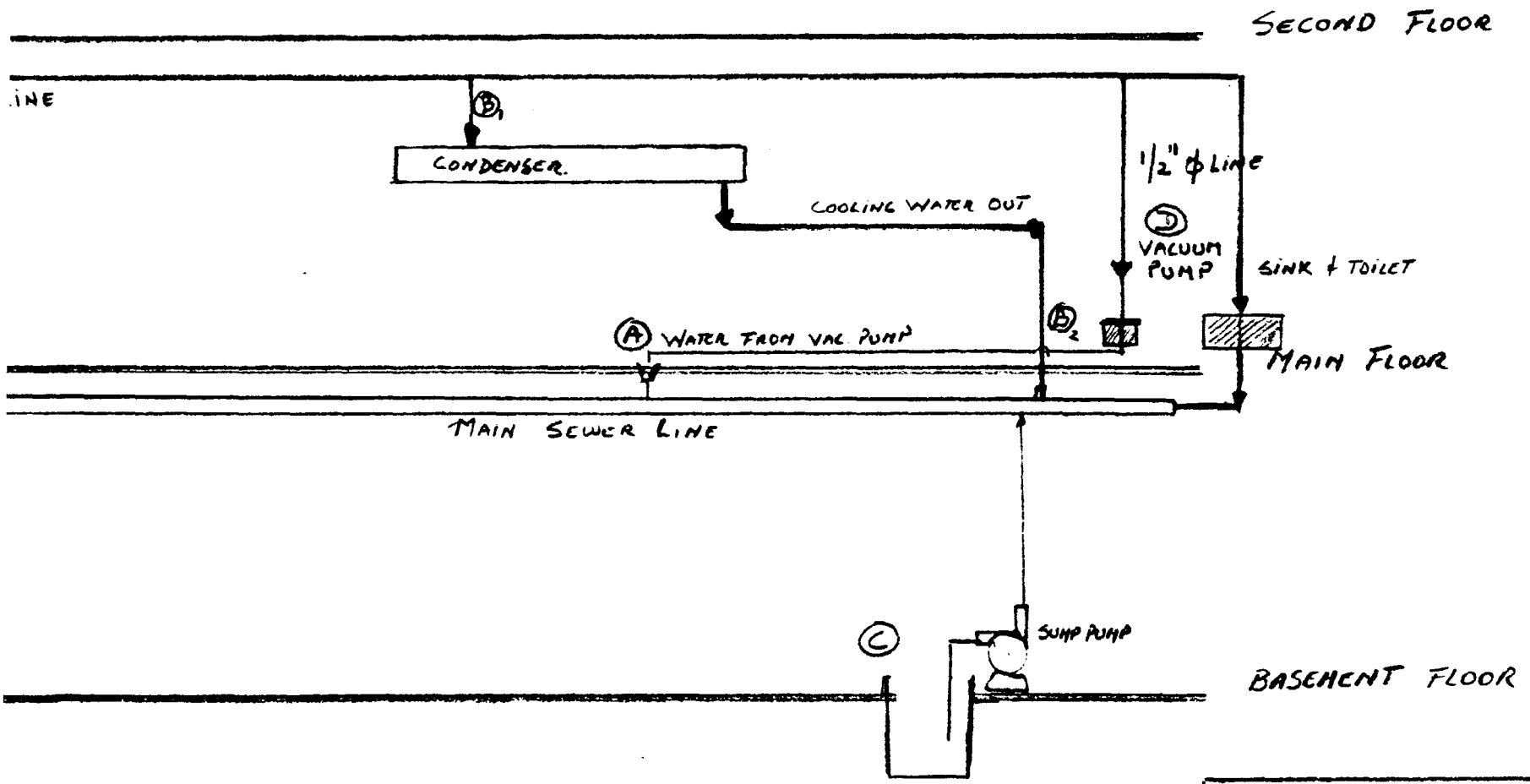
849160317

B_2 - SANITARY LINES

B_1 - WATER FOR COOLING PURPOSES

C - COLLECTS WATER FROM BOILER & FLOOR CLEANING.

D - WATER SEAL FROM VAC PUMP



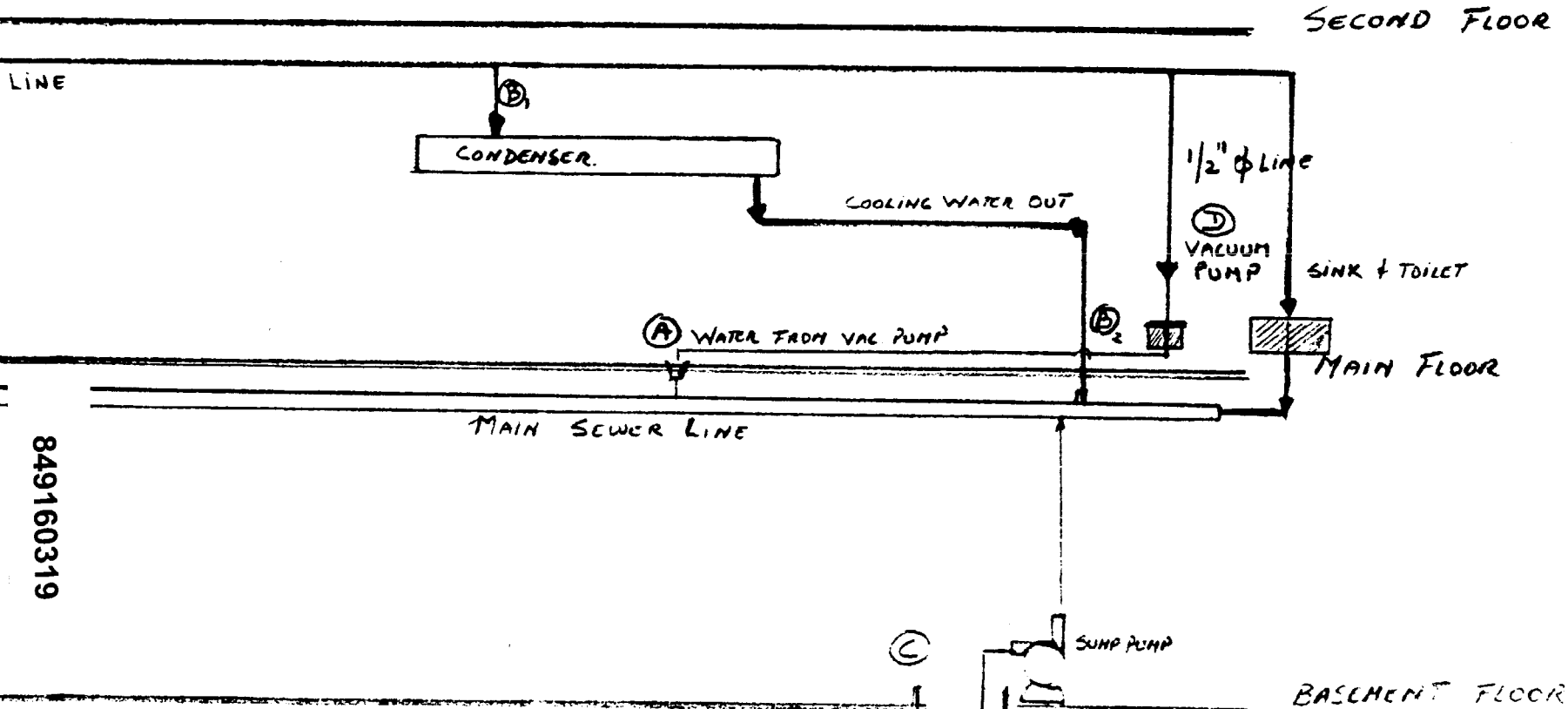
CHEMICAL COMPOUNDS INC

WATER DISTRIBUTION BLOCK PLAN

JAN 5 '88 A. COLLEDI

84916031 8

A & B_2 - SAMPLE LINES
B_1 - WATER FOR COOLING PURPOSES
C - COLLECTS WATER FROM BOILER & FLOOR CLEANING.
D - WATER SEAL FROM VAC PUMP



PASSAIC VALLEY SEWERAGE COMMISSIONERS
APPLICATION FOR A SEWER CONNECTION PERMIT

SECTION A

1. Company Name: Chemical Compounds, Inc.
2. Permit number if applicable, N/A
3. Location: 29-75 Riverside Avenue, Building #17, Newark, New Jersey

   Zip Code: 07104
4. Mailing Address: Same as Above

   Zip Code:
5. Person to contact concerning information provided in this application:

   Name of Contact Official: Harold E. Sullivan

   Title: President Phone No. (201) 485-3211

   Address: Same as Above Zip Code
6. Number of Employees - Full Time: 2 Part Time: 2

   Number of Work Days Per Year:

   Number of Shifts Per Day: One
7. If property is owned indicate block and lot numbers:

   Block 614 Lot 66

   Assessed Value: $33,700.00 1987
8. If property is rented indicate name and address of owner:

   N/A

   Total square feet rented: N/A
9. List NJPDES Permit number if applicable, Not Applicable ar

   name of receiving body of water entered Not Applicable

RECEIVED
OCT 1987

849160320

SECTION B

WATER DATA

10. Water Source: (Circle all appropriate answers)

(Purchased)	Y - (N)		
Well	Y - N	If Y, is it metered	Y - N
River	Y - N	If Y, is it metered	Y - N

11. Name of purchased water supplier: City of Newark

List all Acct #s: 10-783-577-100

12. Water Received: From Mo. NONE Yr. _____ Through Mo. ____ Yr. _____

(* Next to a figure means it is estimated).

	PURCHASED	WELL	RIVER	TOTAL
1st Qtr.	N/A			
2nd Qtr.	N/A			
3rd Qtr.	N/A			
4th Qtr.	N/A			

GRAND TOTAL _____

Report in gallons

13. Water Use and Disposition (* Next to a figure means it is estimated).

	Gallons Sanitary/Combined Sewer	Discharged Stormsewer/ River/Ditch	Gallons Used Other
Sanitary Service Only	N/A		
Process Waste Water	N/A		
Cooling Water	N/A		
Evaporation			
Contained in the product			
Other (Describe) _____			

GRAND TOTAL _____

SECTION B (CONTINUED)

14. Process wastewater which is discharged as above is metered as follows: N/A

to the Separate Sanitary Sewer	Y - N
to the Combined Sewer	Y - N
to a storm sewer	Y - N
river or ditch	Y - N

15. Waste Hauler Information: List all firms and/or independent contractors used to remove process waste or sludge from this facility.

Contractor	Address	Icc#	Waste type handled
None			None

SECTION C

OPERATIONAL CHARACTERISTICS

16. Discharge of Industrial Waste is continuous N/A

or intermittent _____ each operating day.

If the discharge is intermittent, it occurs between the following hours: 8:00 A.M. - 5:00P

17. Brief description of Manufacturing or other activity performed:

Chemical Manufacturing

Warehousing

18. Principal Raw Materials used: Ammonia, Adipic Acid, Methanol, Benzoic Acid

19. Principal Products or Services: Ammonium Adipate,

Ammonium Benzoate

SECTION C (CONTINUED)

20. Describe seasonal variations,if significant, giving dates, volumes, rates, hours, etc. Inclu variations in product lines which affect waste characteristics: N/A

SECTION D

MONITORING

21. Describe any pretreatment process or effluent monitoring system in use:

Outlet None None

Outlet None None

Outlet None None

22. Sampling information

Outlet	Contains Ind. Waste	Sampler Type	Refrigerated
None	None	None	None

SECTION D (CONTINUED)

23. Volume Information

Outlet	Daily Flow (Gallons)	Metered (Y - (N))	Type	Date
Nash Vacuum Pump	200		Material Balance	9/21/87
Reactor Jacket	900			9/21/87
Condenser	1200			9/21/87

24. Frequency of calibration of each flow meter: N/A

25. Attach a plot plan of the property showing:

(a) all existing or proposed sewer and drain lines (including outlets to a storm sewer, river or ditch);

(b) sample point (s); Monitoring or Pretreatment Equipment;

(c) details of the connection (s) to the municipal (or PVSC) sewer, including the distance and direction of each connection from the nearest street intersection.

NONE

SECTION E

ANALYSIS OF INDUSTRIAL WASTE

26. Analysis for Industrial Waste must be a proper sample taken for each outlet.

OUTLET NO. N/A

Report to the nearest unit: XX. except where indicated with (1) Example: 15 mg/l				Report to the nearest hundredth: 0.X except where indicated Example: 0.36 mg/l		
Code		Parameter	Value	Code	Parameter	
0200*		Radioactivity (PL-1)		1097*	Antimony (Sb)	
0500		Total Solids		1002*	Arsenic (As)	
0510		Total Mineral Solids		1022*	Boron (B)	
0530		Total Suspended Solids		1027*	Cadmium (Cd)	
0552		Mineral Suspended Solids		1034*	Chromium Total (Cr)	
0555	(1)(3)	Petroleum Hydrocarbons		1042*	Copper (Cu)	
0310		Biochemical Oxygen Demand (BOD)		1045*	Iron (Fe)	
				1051*	Lead (Pb)	
0340		Chemical Oxygen Demand (COD)		0720*(3)	Cyanide (CN)	
				1900*	Mercury(Report to 0.XXX)	
0680		Total Organic Carbon (TOC)		1067*	Nickel (Ni)	
				1147*	Selenium (Se)	
0745*	(1)	Sulfide		1077*	Silver (Ag)	
9000	(1)(3)	pH (standard unit range)		1102*	Tin (Sn)	
0625*	(1)	Kjeldahl N as N		1092*	Zinc (Zn)	
0610*	(1)	Ammonia as N		2730*	Phenol	
0507*	(1)	Ortho Phosphates as P		4053*	Pesticides (Report to 0.XXX)	
9998*	(2)(3)	TTO (Report to 0.XXX)				
				9999(2)(3)	TTVO(Report to 0.XXX)	

FOOTNOTES:

(1) Report results to the neareth tenth, i.e., 1.6 mg/l.

(*) Analyze for this if reasonably expected to be present in the discharge.

(2) See instructions.

(3) Grab sample required.

849160325

SECTION E (CONTINUED)

Samples collected by: N/A New Operation

Date:

Samples analyzed by: N/A

Date:

Products being manufactured when sample was collected: N/A

27. Who performs the analysis of the samples for User Charge? N/A

28. Is the Laboratory certified by NJDEP to conduct all the analyses? Y - N
N/A

29. Who performs the analyses of the samples for the pretreatment parameters? N/A

(If monitoring has not commenced for pretreatment, indicate laboratory you plan to use. I unknown, so state): N/A

30. Is The Laboratory certified by NJDEP to conduct all the required Pretreatment analyses?

Y - N N/A

31. Based upon knowledge of materials and processes used at this facility check the approprite box that best describes the potential that a Priority Pollutant, listed on Tables 1, 2, & 3 is present in your discharge.

NONE

849160326

SECTION F

PRETREATMENT

32. Industrial Category: N/A

Subpart (s): N/A

33. Compliance date(s): N/A

34. Date Baseline Monitoring Report (BMR) submitted to PVSC: NONE

35. Compliance schedule submitted? N/A
If yes is facility on schedule? _____ Explain if compliance date will not be met:

36. Does this facility come under the Resource Conservation and Recovery Act (RCRA)?
YES

37. Does this facility have a Spill Prevention Control and Countermeasures (SPCC) plan?
NO

If yes, describe:

38. Has this facility ever been cited by NJDEP or EPA for a violation of State or Federal Regulations for the nature of its wastewater discharge? Y - N NO

CERTIFICATION:

The information contained in this application is familiar to me and, to the best of my knowled and belief, such information is true, complete, and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority sign the application on behalf of the corporation.

Name of signing official: Harold E. Sullivan
PRINT

TITLE: President

9/28/87
DATE

Harold E. Sullivan
SIGNATURE

849160328

TABLE 1 EPA PRIORITY POLLUTANTS

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C
acenaphthene					2,4 dimethylphenol			
acrolein					2,4 dinitrotoluene			
acrylonitrile					2,6 dinitrotoluene			
benzene					1,2 diphenylhydrazine			
benzidine					ethylbenzene			
carbon tetrachloride					fluoranthene			
(tetrachloromethane)					4-chlorophenyl phenyl ether			
chlorobenzene					4-bromophenyl phenyl ether			
1,2,4-trichlorobenzene					bis(2-cloroisopropyl) ether			
hexachlorobenzene					bis(2-chloroethoxy) methane			
1,2 dichloroethane					methylene chloride			
1,1,1, trichlorethane					(dichloromethane)			
hexachloroethane					methyl chloride			
1,1, dichloroethane					(chloromethane)			
1,1,2 trichloroethane					methyl bromide			
1,1,2,2, tetrachloroethane					(bromomethane)			
chlorethane					bromoform(tribromomethane)			
bis(chloromethyl) ether					dichlorobromomethane			
bis(2 chloroethyl) ether					trichlorofluoromethane			
2-chloroethyl vinyl ether (mixed)					dichlorodifuoromethane			
2-chloronaphthalene					chlorodibromomethane			
2,4,6, trichlorophenol					hexachlorobutadiene			
parachlorometa cresol					hexachlorocyclopentadiene			
chloroform (trichloromethane)					isophorone			
2 chlorophenol					naphthalene			
1,2, dichlorobenzene					nitrobenzene			
1,3, dichlorobenzene					2-nitrophenol			
1,4, dichlorobenzene					4-nitrophenol			
3,3, dichlorobenzidine					2,4-dinitrophenol			
1,1, dichloroethylene					4,6 dinitro-o cresol			
1,2, trans-dichloroethylene					N-nitrosodimethylamine			
2,4, dichlorophenol					N-nitrosodiphenylamine			
1,2, dichloropropane					N-nitrosodi-n-proplyamine			
1,3 dichloropropylene					pentachlorophenol			
(1,3 dichloropropene)					phenol			

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 1 EPA PRIORITY POLLUTANTS (CONTINUED)

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B
bis(2-ethlhexyl) phthalate					endrin		
butylbenzylphthalate					endrin aldahyde		
di-n-butylphthalate					heptachlor		
di-n-octylphthalate					heptachlor (epoxide)		
diethylphthalate					BHC Alpha		
dimethylphthalate					BHC Beta		
benzo(a)anthracene					BHC Gamma		
benzo(a)pyrene					BHC Delta		
3,4 benzofluoranthene					PCB-1242		
benzo(k)fluoranthane					PCB-1254		
chrysene					PCB-1221		
acenaphthylene					PCB-1232		
anthracene					PCB-1248		
benzo(ghi)perylene					PCB-1260		
fluorene					PCB-1016		
phenanthrene					toxaphene		
dibenzo(a,h)anthracene					antimony (total)		
indeno(1,2,3-c,d)pyrene					arsenic (total)		
pyrene					asbestos (fibrous)		
tetrachloroethylene					beryllium (total)		
toluene					cadmium (total)		
trichloroethylene					chromium (total)		
vinyl chloride					copper (total)		
aldrin					cyanide (total)		
dieldrin					lead (total)		
chlordane					mercury (total)		
4,4 DDT					nickel (total)		
4,4 DDE					selenium (total)		
4,4 DDD					silver (total)		
endosulfan 1					thallium (total)		
endosulfan 11					zinc (total)		
endosulfan sulfate					2,3,7,8, tetrachlorodibenzo		
					p-dioxin		

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 2 NJDEP EXPANDED PRIORITY POLLUTANTS

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C
acrylamide					n,n-dimethyl aniline			
amitrole					3,3-dimethyl benzidine			
amyl alcohols					1,1-dimethylhydrazine			
aniline hydorchloride					dioxane			
anisole					diphenylamine			
auramine					ethylenimine			
benzotrichloride					hydrazine			
benzylamine					4,4'-methylene bis (2-chloroaniline)			
o-chloroaniline					4,4'-methylenedianiline			
m-chloroaniline					methyl isobutyl ketone			
p-chloraniline					alpha-naphthylamine			
1-chloro-2-nitrobenzene					beta-naphthylamine			
1-chloro-4-nitrobenzene					n-methylaniline			
chloroprene					1,2-phenylenediamine			
chrysoidine					1,3-phenylenediamine			
cumene					1,4-phenylenediamine			
2,3-dichloroaniline					sudan 1 (solvent yellow 14)			
2,4-dichloroaniline					thiourea			
2,5-dichloroaniline					toluene sulfonic acids			
3,4-dichloroaniline					toluidines			
3,5-dichloroaniline					xylidines			
1,3-dichloropropene								
1,3-dimethoxybenzidine								

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 3 EPA HAZARDOUS SUBSTANCES

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C
acetaldehyde					isopropanolamine			
allyl alcohol					kelthane			
allyl chloride					kepone			
amyl acetate					malathion			
aniline					mercaptodimethur			
benzonitrile					methoxychlor			
benzyl chloride					methyl mercaptan			
butyl acetate					methyl methacrylate			
butylamine					methyl parathion			
captan					mevinphos			
carbaryl					mexacarbate			
carbofuran					monoethyl amine			
carbon disulfide					monomethyl amine			
chlorpyrifos					naled			
coumaphos					napthenic acid			
cresol					nitrotoluene			
crotonaldehyde					parathion			
cyclohexane					phenolsulfanate			
2,4-D (2,4-dichlorophenoxy					phosgene			
acetic acid)					propargite			
diazinon					propylene oxide			
dicamba					pyrethrins			
dichlobenil					quinoline			
dichlone					resorcinol			
2,2-dichloropropionic acid					strontium			
dichlorvos					strychnine			
diethyl amine					styrene			
dimethyl amine					2,4,5-T (2,4,5-trichloro-			
					phenoxy acetic acid)			
dinitrobenzene					TDE (tetrachloro-			
					diphenylethane)			
diquat					2,4,5-TP 2-(2,4,5-			
					trichlorophenoxy)			
					propanoic acid			
disulfoton					trichlorofon			
diuron					triethylamine			
epichlorohydrin					trimethylamine			

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

TABLE 3 EPA HAZARDOUS SUBSTANCES (CONTINUED)

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C
ethanolamine					uranium			
ethion					vanadium			
ethylene diamine					vinyl acetate			
ethylene dibromide					xylene			
formaldehyde					xylenol			
furfural					zirconium			
guthion								
isoprene								

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

ELAN CHEMICAL

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

October 14, 1994 ✓

Mr. Yury Langer
Elan Chemical Company
268 Doremus Avenue
Newark, New Jersey 07105

Certified Mail
P 252 571 838

RE: NOTICE OF VIOLATION
PERMIT #: 20403242
VIOLATION DATE: AUGUST, 1994
SECTION VIOLATED: 40 CFR 414 SV

Dear Mr. Langer:

You are put on notice that your company is in violation of Federal Regulation 40 CFR 414 and Section 313.1 of the PVSC Rules and Regulations. A review of your MR-1 for August, 1994 revealed the following mass limit exceedance:

A sample for methylene chloride taken by your company on 08/02/94 resulted in a mass loading of 59.95440 g/day, exceeding the monthly average limit of 18.39837 g/day, by more than 20%.

You should be aware that a monthly average of all samples taken either by you or PVSC that is 20% or more above the monthly average limitation for a hazardous pollutant makes the violation a serious violation and that two (2) serious violations in any six month period would make a company a Significant Non Complier (SNC). In addition, four monthly average violations of any amount in any six month period would also make a company SNC. This would subject your company to mandatory minimum fines under the Clean Water Enforcement Act (CWEA). Based upon the explanation given above, your company has committed a serious violation as a defined by the Clean Water Enforcement Act. Since your company is in the process of entering into a Judicial Consent Order (JCO) with PVSC for past OCPSF exceedances, this matter is being referred to the PVSC Counsel for settlement.

As far as the August, 1994 MR-1 report deficiencies, the compliance statement did not reflect the methylene chloride permit exceedance. Additionally all sample measurements in grams/day and permit requirements must be to five decimal places, as stated in your permit, from this point forward. Please submit a corrected compliance statement within 5 days of receipt of this letter. Failure to do so could result in fines and other penalties. You should forward your response to the attention of the Industrial Department. If you have any questions please call Andy Caltagirone at (201)817-5723.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Robert J. Davenport
Executive Director

RJD/mc

cc: Frank P. D'Ascensio
Gabriel M. Ambrosio, Esq.
City of Newark

111-6337

elan INCORPORATED 268 DOREMUS AVE. NEWARK, N.J. 07105 (201) 344-8014

FAX: (201) 344-1948

Passaic Valley Sewerage Comm.
600 Wilson Ave.
Newark NJ 07105

Attn: Carmine Perrapato

Apr. 6th. 1992

Re; Cyanide non-compliance

Dear Sir,

We are very surprised at the high (3.99mg/l) cyanide content of our effluent on 3/11, we assume you mean 1992. All the previous samples taken by PVSC, CH2 and by Elan for the monthly Pretreatment and Monitoring Report show very minor or no cyanide content.

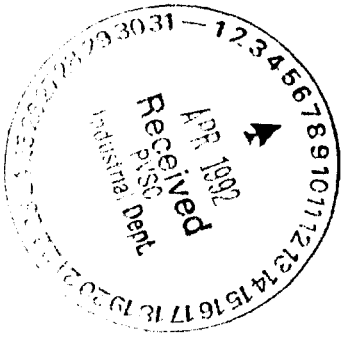
We are therefore trying to determine the source of the cyanide to ensure that future discharges will not exceed the compliance limits.

Please address all future compliance notifications to the undersigned, as previously requested.

Very truly Yours,

ELAN CHEMICAL CO.

Karol Sulimirski
Project Engr.



849160337

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

March 27, 1992

Elan Chemical Co.
268 Doremus Avenue
Newark, NJ 07105
Attn: Jon Vassiliades

CERTIFIED RECEIPT
P 034 413 554

RE: OCPSF COMPLIANCE

Dear Mr. Vassiliades:

On 3/11/91 a cyanide (T) sample was taken at your facility by PVSC Inspectors. The result was 3.99 mg/l. You should be aware that the OCPSF regulation is based on mass and that a cyanide result of 3.99 mg/l could exceed the mass limit contained in the regulation. This would put your company out of compliance with the mass limit. PVSC is awaiting guidance from EPA which will enable us to make this determination. Therefore, you should investigate the reason for this high cyanide result and develop a plan on how to reduce such discharge since it could be determined to exceed the limitation. This holds true for all regulated parameters under 40 CFR 414.

Please respond to this letter in writing within ten days with an explanation for this result and with a plan to reduce the cyanide discharges in the future. Failure to do so could lead to enforcement action. If you have any questions concerning this matter, please call Mario Graglia at (201) 817-5724.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Carmine T. Perrapato
Executive Director

CTP/sml

cc: Robert Davenport, Deputy Executive Director
Frank D'Ascensio
City of Newark

849160338

ÉLAN CHEMICAL COMPANY

268 DOREMUS AVENUE

NEWARK, NEW JERSEY 07105

TELEPHONE 201-344-8014

AROMA CHEMICAL PRICE LIST

April 1, 1975
QUARTERLY ISSUE

	Quantity	Net
Aldehyde C-14 so-called (Gamma Undecalactone	25 lbs.....	$ 6.55/lb.
Aldehyde C-16 so-called (Ethyl Methyl Phenyl Glycidate).....	25 lbs.....	4.20/lb.
Aldehyde C-18 so-called (Gamma Nonalactone).....	25 lbs.....	10.60/lb.
Allyl Caproate (Allyl Hexanoate).....	25 lbs.....	2.70/lb.
Allyl Cyclohexyl Propionate.....	25 lbs.....	8.10/lb.
Allyl Heptoate.....	25 lbs.....	4.70/lb.
Amyl Benzoate.....	25 lbs.....	2.65/lb.
Amyl Caproate (Amyl Hexanoate).....	25 lbs.....	2.85/lb.
Amyl Cinnamate.....	25 lbs.....	6.70/lb.
Amyl Formate.....	25 lbs.....	1.85/lb.
Amyl iso-Valerate.....	25 lbs.....	2.85/lb.
Amyl Phenyl Acetate.....	25 lbs.....	3.90/lb.
Amyl Propionate.....	25 lbs.....	2.00/lb.
Anisyl Acetate.....	25 lbs.....	7.35/lb.
Anisyl Formate.....	25 lbs.....	23.00/lb.
Anisyl Propionate.....	25 lbs.....	10.00/lb.
Benzyl Butyrate.....	25 lbs.....	2.25/lb.
Benzyl iso-Butyrate.....	25 lbs.....	3.00/lb.
Benzyl iso-Valerate.....	25 lbs.....	4.75/lb.

DECREASE IN PRICE

April 1, 1975
QUARTERLY ISSUE

	Quantity	Net
Benzyl Phenyl Acetate	25 lbs.	$ 4.50/lb.
Benzyl Propionate	25 lbs.	1.75/lb.
Benzyl Salicylate	25 lbs.	2.10/lb.
n-Butyl Anthranilate	25 lbs.	8.75/lb.
n-Butyl Butyrate	25 lbs.	2.05/lb.
n-Butyl Propionate	25 lbs.	3.80/lb.
n-Butyl iso-Valerate	25 lbs.	4.65/lb.
Cedrenol	25 lbs.	4.90/lb.
Cedrol Special	25 lbs.	4.30/lb.
Cedryl Acetate Elan	25 lbs.	4.70/lb.
Cinnamyl Acetate	25 lbs.	4.65/lb.
Cinnamyl Formate	25 lbs.	5.80/lb.
Cinnamyl iso-Butyrate	25 lbs.	8.25/lb.
Cinnamyl iso-Valerate	25 lbs.	10.00/lb.
-Cinnamyl Propionate	25 lbs.	7.75/lb.
-Citronellol 90/92%	25 lbs.	4.30/lb.
-Citronellol 96/98%	25 lbs.	4.95/lb.
Citronellyl Acetate	25 lbs.	4.75/lb.
Citronellyl Butyrate	25 lbs.	6.10/lb.
Citronellyl Formate	25 lbs.	5.80/lb.
+Citronellyl iso-Butyrate	25 lbs.	5.75/lb.
Decalactone-Delta	25 lbs.	18.00/lb.
Decyl Acetate (Acetate C-10)	25 lbs.	3.75/lb.
Diethyl Sebacate	25 lbs.	4.60/lb.

-DECREASE IN PRICE
+ INCREASE IN PRICE

April 1, 1975
QUARTERLY ISSUE

	Quantity	Net
+Diethyl Succinate	25 lbs	$ 2.50/lb.
Dimethyl Octanol	25 lbs	3.10/lb.
Dimethyl Succinate	25 lbs	3.45/lb.
Diphenyl Methane	25 lbs	2.00/lb.
Dodecalactone-Delta	25 lbs	18.00/lb.
Ethyl Benzoate	25 lbs	1.40/lb.
-Ethyl Caproate (Ethyl Hexanoate)	25 lbs	2.45/lb.
Ethyl Caprylate (Ethyl Octanoate)	25 lbs	3.80/lb.
+Ethyl Cinnamate	25 lbs	5.25/lb.
Ethyl Decylate (Ethyl Caprate)	25 lbs	3.90/lb.
Ethyl Heptoate	25 lbs	3.80/lb.
Ethyl iso-Butyrate	25 lbs	3.00/lb.
Ethyl iso-Valerate	25 lbs	3.65/lb.
Ethyl N-Valerate	25 lbs	3.75/lb.
-Ethyl Laurate	25 lbs	2.60/lb.
Ethyl Levulinate	25 lbs	8.40/lb.
Ethyl Myristate	25 lbs	3.35/lb.
Ethyl Pelargonate (Ethyl Nonanoate)	25 lbs	3.50/lb.
+Ethyl Phenyl Acetate	25 lbs	3.50/lb.
Eugenol ex Bay Oil	25 lbs	On Application
Geraniol for Soap	25 lbs	3.50/lb.
-Geraniol 90/92%	25 lbs	4.50/lb.
-Geraniol 96/98%	25 lbs	5.15/lb.
Geranyl Acetate Extra	25 lbs	5.10/lb.

-DECREASE IN PRICE
+INCREASE IN PRICE

April 1, 1975
QUARTERLY ISSUE

	Quantity	Net
Geranyl Butyrate	25 lbs	$ 5.75/lb.
Geranyl Formate	25 lbs	5.95/lb.
Geranyl Propionate	25 lbs	6.20/lb.
Guaiac Wood Acetate Extra	25 lbs	5.75/lb.
Heptyl Acetate	25 lbs	4.50/lb.
Hexyl Acetate	25 lbs	2.80/lb.
Hexyl Caprylate (Hexyl Octanoate)	25 lbs	6.00/lb.
Hexyl n-Butyrate	25 lbs	6.25/lb.
Hexyl iso-Butyrate	25 lbs	6.25/lb.
Hexyl Propionate	25 lbs	5.25/lb.
Iso-Amyl Alcohol (Natural)	25 lbs	1.35/lb.
Iso-Amyl Benzyl Ether	25 lbs	2.40/lb.
Iso-Bornyl Formate	25 lbs	5.30/lb.
Iso-Bornyl Propionate	25 lbs	3.05/lb.
Iso-Butyl Anthranilate	25 lbs	8.50/lb.
Iso-Butyl Benzoate	25 lbs	1.60/lb.
Iso-Butyl Caproate (Iso-Butyl Hexanoate)	25 lbs	3.35/lb.
+ Iso-Butyl Cinnamate	25 lbs	5.75/lb.
Iso-Butyl iso-Valerate	25 lbs	4.65/lb.
Iso-Butyl Phenyl Acetate	25 lbs	2.80/lb.
Iso-Propyl Cinnamate	25 lbs	6.00/lb.
Iso-Pulegyl Acetate	25 lbs	5.00/lb.
Lauryl Acetate (Acetate C-12)	25 lbs	3.95/lb.
Linalool Natural	25 lbs	On Application

- DECREASE IN PRICE
+ INCREASE IN PRICE

April 1, 1975
QUARTERLY ISSUE

	Quantity	Net
Linalyl Acetate Natural 90/92%	25 lbs	On Application
Linalyl Acetate Natural 96/98%	25 lbs	On Application
Methoxy Phenyl Butanone	25 lbs	$ 9.60/lb.
-Methyl Eugenol	25 lbs	8.00/lb.
Methyl Hexyl Ketone (Octenone-2)	25 lbs	1.60/lb.
-Methyl iso-Eugenol	25 lbs	8.50/lb.
+Methyl Phenyl Acetate	25 lbs	2.85/lb.
Methyl Undecylenate	25 lbs	5.05/lb.
*Neryl Acetate	25 lbs	5.35/lb.
Nonalactone-Delta	25 lbs	23.00/lb.
Nonanol-2	25 lbs	15.25/lb.
Nonyl Acetate (Acetate C-9)	25 lbs	10.20/lb.
Nonyl Alcohol (Nonanol-1)	25 lbs	11.70/lb.
Octyl Acetate (Acetate C-8)	25 lbs	2.55/lb.
Octyl iso-Butyrate	25 lbs	2.50/lb.
Oenanthic Ether	25 lbs	2.85/lb.
Para Cresyl Acetate	25 lbs	2.95/lb.
Para Cresyl Caprylate (Para Cresyl Octanoate)	25 lbs	7.55/lb.
Phenoxy Ethyl iso-Butyrate	25 lbs	4.35/lb.
-Phenyl Acetaldehyde Dimethyl Acetal	25 lbs	5.00/lb.
Phenyl Acetaldehyde Ethylene Glycol Acetal	25 lbs	8.10/lb.
Phenyl Ethyl N-Butyrate	25 lbs	4.60/lb.
Phenyl Ethyl Cinnamate (Crystal)	25 lbs	12.50/lb.
Phenyl Ethyl Formate	25 lbs	5.70/lb.
Phenyl Ethyl iso-Butyrate	25 lbs	4.50/lb.

-DECREASE IN PRICE

April 1, 1975
QUARTERLY ISSUE

	Quantity	Net
-Phenyl Ethyl iso-Valerate	25 lbs.	$ 5.00/lb.
Phenyl Ethyl Phenyl Acetate	25 lbs.	5.30/lb.
Phenyl Ethyl Propionate	25 lbs.	4.60/lb.
Phenyl Propyl Alcohol	25 lbs.	3.60/lb.
Phenyl Propyl Acetate	25 lbs.	4.00/lb.
Phenyl Propyl N-Butyrate	25 lbs.	6.15/lb.
n-Propyl Propionate	25 lbs.	3.00/lb.
Styralyl Propionate	25 lbs.	3.70/lb.
Terpinyl Propionate	25 lbs.	2.35/lb.
Tolyl Acetate	25 lbs.	6.50/lb.
Vetiveryl Acetate All Grades	25 lbs.	On Application.

-DECREASE IN PRICE

ALL PRICES DELIVERED METROPOLITAN AREA OR F.O.B., NEWARK, N. J.

PRICE DIFFERENTIALS:

$2.50/lb. on 25 lb. price for 1 lb. lots.
.70/lb. on 25 lb. price for 5 lb. lots.
.35/lb. on 25 lb. price for 10 lb. lots.

.05/lb. off 25 lb. price for 100 lb. lots.
.10/lb. off 25 lb. price for 200 lb. lots.
.15/lb. off 25 lb. price for 400 lb. drum.

File

DATE OF VISIT	8-26-85
COMPANY NAME	Elan Chemical
COMPANY REPS	Karol Sulemerski, Plt. Eng. John Vassiliades, V.P. Production
PVSC REP	M. Gunster
PURPOSE	pH Compliance

SUMMARY

An acid discharge took place of approximately 3,000 gallons into PVSC sewer system August 23rd at about 3 a.m. It lasted several hours. Carol Sulimerski was on vacation at the time, therefore, an explanation for the occurence came from John Vassiliades. He stated an acid tank was released into the treatment system, the caustic supply soon became depleted and serious damage resulted causing leaks and corrusion to the metal pipe system. The damage is estimated at about $10,000 dollars. Mr. Vassiliades said the workman responsible was fired and solinoids will be placed on all holding tanks so discharge will stop if pH adjustment ceases.

I reminded them that PVSC should have been notified immediately on Friday morning when the incident occurred, instead of finding out thru routine pH investigation.

M. Gunster

MG/cc

849160345

1111-11760

ORGANIC CHEMICALS QUESTIONAIRE

Below are listed twenty one different organic chemicals. Please indicate whether you purchase and use any of them. Also, please list the average quantity (in pounds) purchased each month for the previous 6 months (July 1984 through January 1985). If you have any questions call Frank D'Ascensio or Mario Graglia of the Industrial Department of PVSC at 344-1800.

Company Name ELAN CHEMICAL Co

Address 268 DORMUS AVE

Permit No. 2C4C3240 Date 3/21/85

Name of Chemical	Purchased Yes or No	Avg. Lbs./Mon Purchased
Benzene	NO	
Carbon tetrachloride	NO	
Chlorobenzene	NO	
Chloroform	NO	
1, 1-Dichloroethane	NO	
1, 2-Dichloroethane	YES	1375 C
1, 2-Dichloropropane	NO	
Ethylbenzene	NO	
Methylene Chloride	NO	
Tetrachloroethylene	NO	
Toluene	YES	6120
1, 2-Trans-Dichloroethylene	NO	
1, 1, 1-Trichloroethane	NO	
1, 1, 2-Trichloroethane	NO	
Trichloroethylene	NO	
Pentachlorophenol	NO	
Phenol	NO	
Naphthalene	NO	
Bis (2-Chloroethoxy) Methane	NO	
2-Chloronapthalene	NO	
Di-N-Butyl Phthalate	NO	

Signature [signature]

Title Vice President

849160346

20

Renewal Application (Y) or N

PASSAIC VALLEY SEWERAGE COMMISSIONERS

SEWER CONNECTION APPLICATION

PART I - SECTIONS A-C

Applicant is:
Corporation ✓
Partnership
Other

SECTION A: GENERAL INFORMATION

1. Company Name: ELAN CHEMICAL CO

2. Location: 268 DOREMUS AVE
NEWARK, N.J. Zip Code: 07105

3. Mailing Address: 268 DOREMUS AVE
NEWARK, N.J. Zip Code: 07105

Name, title, address and telephone number of person to contact concerning information provided in this application:

4. Name of Contact Official: MR PETER BROMBERG
Title: CHAIRMAN OF BOARD Phone No.: 344-8014

5. Address: ELAN CHEMICAL CO. 268 DOREMUS AVE, NEWARK N.J.

6. Number of Employees - Full Time: 62 Part Time:

7. Number of Work Days Per Week: 5
Number of Shifts Per Day: 3
Is production seasonal? NO If so, explain:

8. New Users Only: Indicate date user desires to commence operations:

9. If property is owned, indicate Lot and Block Numbers:
BLOCK 5014 LOT 8 (268 DOREMUS)-LEA
BLOCK 5014 LOT 9 (272 DOREMUS)-L9A 1977 Assessed Value: LEA — 13,100
L9A — 9,600

10. If property is rented, indicate name and address of Landlord:
~~BLOCK 5014 LOT 8~~
~~BLOCK 5014 LOT 9~~

SECTION B: PRODUCT OR SERVICE INFORMATION

11. Brief description of manufacturing or other activity performed:
MFG. OF ORGANIC CHEMICALS FOR FRAGRANCE & FLAVOR INDUSTRY - PERFORM ORGANIC REACTIONS ON 100 TO 4,000 GAL SIZE (REACTIONS-ESTERIFICATION, SAPONIFICATION, REDUCTIONS) PURIFICATION OF ORG CHEMICALS BY DISTILLATION, WASHING, CRYSTALIZATION & DRYING

12. Principal raw materials used: ESSENTIAL OILS, SYNTHETIC ORGANIC ALCOHOLS FATTY ACIDS, ESTERS, SOLVENTS AND INORGANIC ALKALIS/ACIDS.

13. Principal products or services: CHEMICALS FOR FRAGRANCE & FLAVOR INDUSTRY

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SECTION C: WATER DATA

14. Water Received: Year 19 79 (Report Volume in Gallons)

	PURCHASED	WELL	RIVER	TOTAL
1st Qtr.	5,311,000	0	0	5,311,000
2nd Qtr.	8,727,000	0	0	8,727,000
3rd Qtr.	12,143,000	0	0	11,143,000
4th Qtr.	11,434,000	0	0	11,434,000

19 GRAND TOTAL 37,615,000

NOTE: Cu. Ft. X 7.48 = Gallons

15. Name water supplier: CITY OF NEWARK Account#: 10-787-6900-00

16. Is well water metered? NONE Is river water metered? NONE

17. Water Distribution: Year 19 79 (Report Volume in Gallons)

Use (List totals in gallons per year)

(a) sanitary sewer (include industrial & domestic) 32,751,000
(b) separate storm sewer, river, or ditch. 0
(c) contained in product. 0
(d) evaporation. 4,864,000
(e) waste haulers. 0

Name, Address & Registration Number of Waste Haulers Used

18. Is volume in 17 (a) measured? No How? METERED WATER IN-ESTIMATED OUT

Certification:

The information contained in Part I of this application is familiar to me and, to the best of my knowledge and belief, such information is true, complete and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority to sign the application on behalf of the corporation.

Name of Signing Official: PETER BRUMBERG

Title: PRESIDENT

28 DEC 1979
Date

Peter Brumberg
Signature

849160348

PART II - SECTIONS D-E

These sections must be completed if the Applicant:

(a) discharges more than 25 000 gallons per day of either domestic and/or industrial wastes to the sanitary or combined sewer, or,

(b) discharges toxic wastes or wastes which can have a significant impact on the PVSC treatment works.

Questions regarding the applicability of this form to your facility may be answered by contacting the Industrial Department of PVSC at 344-1800.

Company Name: ELAN CHEMICAL CO

Location: 268 DOREMUS AVE NEWARK, N.J. 07105

SECTION D: OPERATIONAL CHARACTERISTICS

19. Discharge of industrial waste is continuous ✓ or intermittent ____

20. Discharge of industrial waste occurs between the following hours:

OVER 24 HOUR PERIOD

21. Industrial Waste is, or may be discharged:

(a) only to the sanitary (or combined) sewer ONLY TO SANITARY SEWER

(b) to both the sanitary (or combined) sewer and a separate storm sewer, river or ditch —

(c) NPDES Permit Number —

22. Describe seasonal variations, if any, during peak, minor, etc. periods. Include variations in product lines which affect waste characteristics.

MINOR SEASONAL VARIATION.

23. Describe any pretreatment process in use: NO PRETREATMENT

849160349

24. Describe any treatment process applied to raw water taken into the plant:

THE WATER USED FOR BOILERS ± 15GPM IS SOFTENED

25. Describe any processes used to recycle water: 95% OF WATER USED BESIDES WATER USED IN BOILERS IS USED FOR COOLING PURPOSES AND IS RECYCLED THRU WATER COOLING TOWERS WITH A CONSTANT BLEED TO SEWER & MAKE UP

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

SECTION E: SEWER CONNECTION INFORMATION

26.

OUTLET * NUMBER	SEWER SIZE (INCHES)	DAILY FLOW (GALLONS)	CONTAINS INDUSTRIAL WASTE (YES OR NO)
1	6	126,000	YES

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Attach a plot plan of the property, showing:

(a) all existing or proposed sewer and drain lines (including outlets to a storm sewer, river or ditch);

(b) sample point(s);

(c) details of the connection(s) to the municipal (or PVSC) sewer, including the distance and direction of each connection from the nearest street intersection.

*If only one outlet, leave blank.

Number multiple outlets starting with 1.

849160350

SECTION F: ANALYSIS OF INDUSTRIAL WASTE

27. Analysis listed below is based on a composite sample of industrial waste taken from the following outlets listed in Section E:

OUTLET # 1 (ONLY OUTLET)

(See instructions for proportioning samples from more than one outlet)

28. Analytical Data: Concentration values are to be reported in mg/l (ppm) unless specified otherwise; analyze waste for those parameters marked with an asterisk (*), analyze waste for other parameters reasonably expected to be present. Code numbers are for internal use only.

REPORT TO THE NEAREST UNIT: X
(EXAMPLE: 150 mg/l)

CODE	PARAMETER	VALUE
* 0100	Color (Apha Units)	
0200	Radioactivity (PI-1)	
* 0500	Total Solids	6400 PPM
* 0505	Total Volatile Solids	546 PPM
* 0510	Total Mineral Solids	
* 0530	Total Suspended Solids	400 PPM
* 0540	Volatile Suspended Solids	400 PPM
* 0550	Mineral Suspended Solids	
* 0070	Turbidity (JTU)	200
0550	Emulsified Oil or Grease	4 PPM
* 0940	Chlorides	177 PPM
* 0945	Sulfates	
* 0310	Biochemical Oxygen Demand (BOD)	1,000 PPM
* 0340	Chemical Oxygen Demand (COD)	1,460 PPM
* 0680	Total Organic Carbon (TOC)	320 PPM

REPORT TO THE NEAREST TENTH: 0.X
(EXAMPLE 1.6 mg/l)

CODE	PARAMETER	VALUE
0745	Sulfide	
0740	Sulfite	
8260	Surfactants (MBAS)	
* 9000	pH (standard units) (range)	6.4
0625	Kjeldahl N as N	
0610	Ammonia as N	
0620	Nitrate as N	
0615	Nitrite as N	
0507	Ortho Phosphates as P	

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REPORT TO THE NEAREST HUNDREDTH: 0.XX
(EXCEPT WHERE INDICATED)
(EXAMPLE: 0.36 mg/l)

CODE	PARAMETER	VALUE
1097	Antimony (Sb)	
1002	Arsenic (As)	0.004 LESS THAN 0.02PPM
1022	Boron (B)	
1027	Cadmium (Cd)	0.07
1034	Chromium Total (Cr)	0.2
1042	Copper (Cu)	0.741
1045	Iron (Fe)	
1051	Lead (Pb)	0.111

REPORT TO THE NEAREST HUNDREDTH: 0.XX
(EXCEPT WHERE INDICATED)
(EXAMPLE: 0.36 mg/l)

CODE	PARAMETER	VALUE
1900	Mercury (Report to 0.XXX)	0.000
1067	Nickel (Ni)	1.11
1147	Selenium (Se)	
1077	Siver (Ag)	
1102	Tin (Sn)	
1092	Zinc (Zn)	0.373
4053	Pesticides (Report to 0.XXX)	
2730	Phenol	64 PPB

29. Samples collected by: ED KROLL Date: 3/24/75

30. Samples analyzed by: U.S. TESTING CO. INC. Date: 4/24/75

Products being manufactured when sample was collected: NORMAL MIX OF PRODUCTS.

Certification:

The information contained in Part II of this application is familiar to me and, to the best of my knowledge and belief, such information is true, complete, and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority to sign the application on behalf of the corporation.

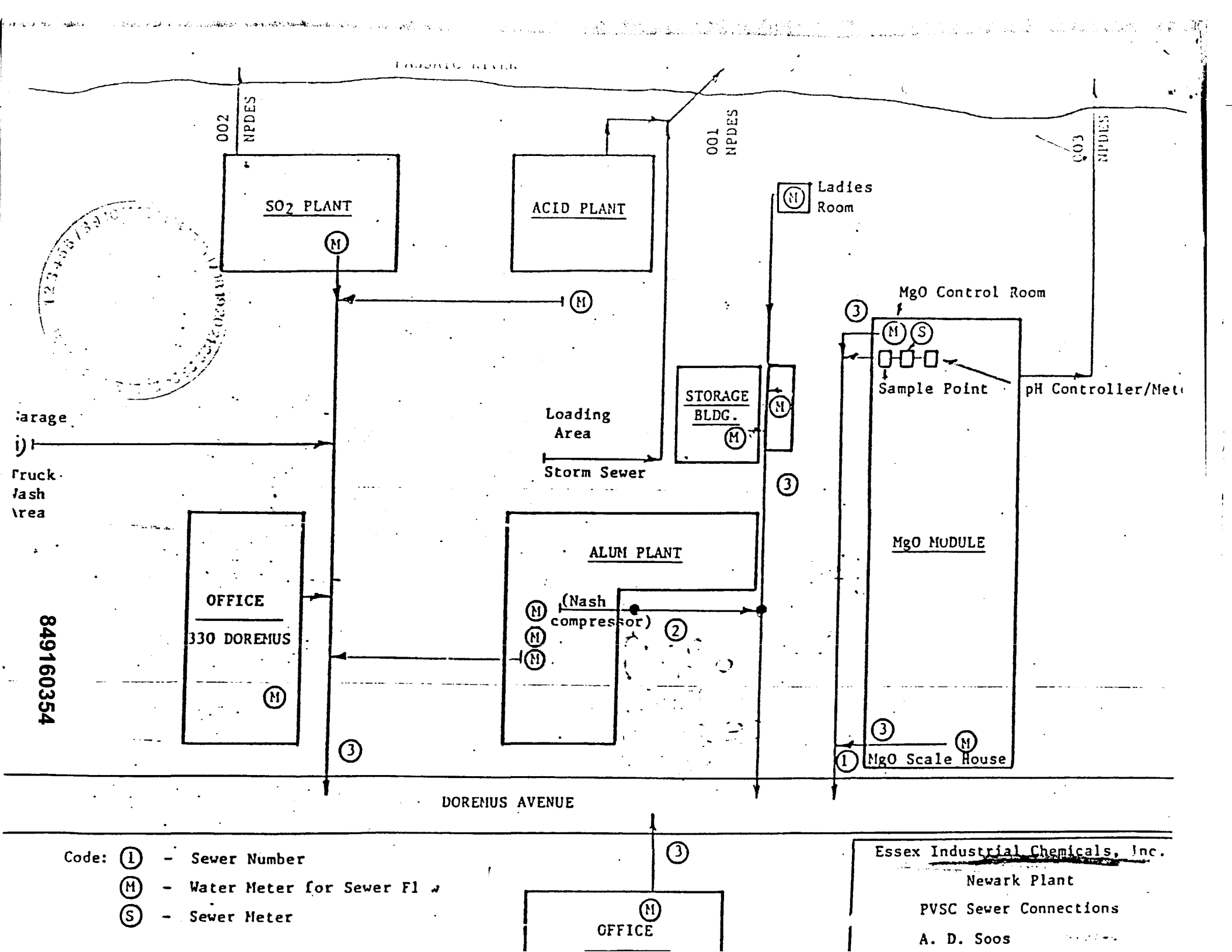
31. Name of Signing Official: PETER BRUMBERG

Title: PRESIDENT

28 DECEMBER 1979
Date

Peter Brumberg
Signature

ESSEX INDUSTRIAL CHEMICALS CO.


002 NPDES
001 NPDES
003 NPDES
SO2 PLANT
ACID PLANT
Ladies Room
MgO Control Room
Sample Point
pH Controller/Met
STORAGE BLDG.
Loading Area
Storm Sewer
Garage
Truck Wash Area
OFFICE
330 DOREMUS
ALUM PLANT
(Nash compressor)
MgO MODULE
MgO Scale House
DOREMUS AVENUE
OFFICE
Code: (1) - Sewer Number
(M) - Water Meter for Sewer Fl
(S) - Sewer Meter
Essex Industrial Chemicals, Inc.
Newark Plant
PVSC Sewer Connections
A. D. Soos

849160354

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

Telephone (201) 688-8900
Fax (201) 688-8966

...W KLEIN, M.S., Director
...EY KLEIN, M.S., Lab. Supervisor

REPORT OF WASTEWATER ANALYSIS

TO: ESSEX CHEMICAL
351 DOREMUS AVENUE

NEWARK NJ 07105
ATT: MR. HOBSON

REPORT # 80930168
CLIENT # ESS01
DATE SUBMITTED: 9/30/88

SAMPLE TYPE: GRAB WASTEWATER
SAMPLE ID: MODULE EFFLUENT
SAMPLE LOCATION: MGO

DATE SAMPLED: TIME SAMPLED:

ANALYSIS	RESULT
BIOCHEMICAL OXYGEN DEMAND, 5 DAY	4
TOTAL SUSPENDED SOLIDS	12

RESULTS ARE IN mg/l UNLESS NOTED.

849160355

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

Telephone (201) 688-8900
Fax (201) 688-8966

...EW KLEIN, M.S., Director
...EY KLEIN, M.S., Lab. Supervisor

REPORT OF WASTEWATER ANALYSIS

REPORT # 80819173
CLIENT # ESSEX
DATE SUBMITTED: 8/19/98

TO: ESSEX CHEMICAL
351 DOREMUS AVENUE

NEWARK NJ 07105

ATT: MR. HOBSON

SAMPLE TYPE: WASTEWATER
SAMPLE ID: EFFLUENT
SAMPLE LOCATION: MGO GRAB MODULE

DATE SAMPLED: TIME SAMPLED:

ANALYSIS	RESULT
BIOCHEMICAL OXYGEN DEMAND, 5 DAY	9
TOTAL SUSPENDED SOLIDS	2162

RESULTS ARE IN mg/l UNLESS NOTED.

849160356

114-4141

ORGANIC CHEMICALS QUESTIONAIRE

Below are listed twenty one different organic chemicals. Please indicate whether you purchase and use any of them. Also, please list the average quantity (in pounds) purchased each month for the previous 6 months (July 1984 through January 1985). If you have any questions call Frank D'Ascensio or Mario Graglia of the Industrial Department of PVSC at 344-1800.

Company Name Essex Industrial Chemicals, Inc.

Address 330 Doremus Avenue, Newark, N.J.

Permit No. _____ Date March 26, 1985

Name of Chemical	Purchased Yes or No	Avg. Lbs./Mon Purchased
Benzene	No	
Carbon tetrachloride	No	
Chlorobenzene	No	
Chloroform	No	
1, 1-Dichloroethane	No	
1, 2-Dichloroethane	No	
1, 2-Dichloropropane	No	
Ethylbenzene	No	
Methylene Chloride	No	
Tetrachloroethylene	No	
Toluene	No	
1, 2-Trans-Dichloroethylene	No	
1, 1, 1-Trichloroethane	Yes	1 Drum (55 Gal.)/Month
1, 1, 2-Trichloroethane	No	
Trichloroethylene	No	
Pentachlorophenol	No	
Phenol	No	
Naphthalene	No	
Bis (2-Chloroethoxy) Methane	No	
2-Chloronapthalene	No	
Di-N-Butyl Phthalate	No	

Signature _____

Title President

849160357

Note: 1,1,1-Trichloroethane is purchased as a proprietary solvent for degreasing parts for the Maintenance Department. None of this material is disposed of to the sanitary sewer system.

I.S. Zonis

20

file

D. INPUT FORM FOR VIOLATIONS
(Number in parenthesis is maximum number of characters)

NAME(30) ESSEX INDUSTRIAL CHEMICAL

SCP-NO(8) 20402311 VIO-DATE(8) 11/20/84

VIO-ID(15) 312.1b V-ORIG-DUE(8) 11/21/84

V-DESCRIP(35) Sulfuric Acid Spill

V-STATDATE(8) 11/21/84 V-STATUS(35) Cleaned up, letter sent, see report

V-STATDATA(8) V-STATUS-A(35)

V-STATDATB(8) V-STATUS-B(35)

V-STATDATC(8) V-STATUS-C(35)

V-RVDUDATE(8) V-RVSTATUS(35)

V-RVDUDATA(8) V-RVSTATUA(35)

V-RVDUDATB(8) V-RVSTATUB(35)

V-RVDUDATC(8) V-RVSTATUC(35)

V-FORMAL(1) N V-ELIMDATE(8) 12/17/84

REMARKS - ADD ON REVERSE

849160358

ESSEX INDUSTRIAL CHEMICALS, INC.
A SUBSIDIARY OF ESSEX CHEMICAL CORPORATION

1401 BROAD STREET • CLIFTON, NEW JERSEY 07015
PHONE (201) 773-6300

December 17, 1984

800-3871

N.J. Department of Environmental Protection
Division of Waste Management
120 Route 156
Yardville, N.J. 08620

Attn: Mr. John Hoyle

Re: Spill of November 20, 1984 at the Newark Plant (alum digester).

Dear Mr. Hoyle:

On November 20th at about 12:45 p.m. a spill of a mixture of bauxite, aluminum sulfate and sulfuric acid occurred at our Newark plant which is located at 351 Doremus Ave.

A small length of pipe between the alum digester and the pump failed suddenly. Several hundred gallons of the mix spilled onto the asphalted ground outside the alum plant. About 1,000 to 2,000 gallons spilled into the city (Passaic Valley Sewerage Commission) sewer. The remainder, inside the digester, was pumped back to a storage tank.

The mix was originally a 42% sulfuric acid solution partially reacted with bauxite into aluminum sulfate (alum).

The sewer line was flushed immediately with 10,000 gallons of water and PVSC notified. Later, Mr. John Sabo inspected the scene and was satisfied with the clean-up activities. No adverse effects were noticed by PVSC at their treatment plant.

The outside spill was soaked up and contained by bauxite. The bauxite was used in the next few days to make aluminum sulfate on site. NJDEP was notified and visited the scene and verbally approved the clean-up activities. Browning-Ferris was contacted and arrived during the afternoon to vacuum up the bauxite for later rework.

The remaining 42% sulfuric acid mix was used in the next alum batch.

The Newark plant responded quickly and efficiently in cleaning up and minimizing the spill. There were no injuries and almost no environmental impact.

The length of pipe that failed, also known as the spool piece, was made of 304 stainless steel and was replaced with an alloy 20 spool piece.

As a preventive measure, operating procedures for alum manufacturing have been changed to reduce the probability of such failures to occur in the future. In addition, the sewer connection will be equipped with a plug or valve to prevent accidental discharge of pollutants into the sewer.

If there should be any other questions, please give this writer a call.

Very truly yours,

ESSEX INDUSTRIAL CHEMICALS, INC.

A. D. Soos
Chemical Engineer

ADS:dm
Certified # P480033730
cc: A. Hobson
D. James
J. Kelly
P. Prudente
J. Smigel
A. Steiner/File
R. Wagner

J. Sabo, PVSC (express mail)
6 Wilson Ave.
Newark, N.J. 07105

DATE OF VISIT	November 21, 1984
COMPANY NAME	Essex Chemical - Newark
COMPANY REP	Pat Purdente, Production Manager
PVSC REP	John Sabo
PURPOSE	Investigation of acid spill of 11/20/84

SUMMARY:

Mr. Purdente gave me the following explanation:

A recently replaced tank coupling, a section of the piping of an alum digestor, had been eaten away by the sulfuric acid contained in the vessel. The steel used to manufacture the new coupling was not able to withstand the corrosive properties of the acid.

Once the leak began, the acid flowed into a nearby floor drain and into a open vacuum pump. Before the proper safety personnel and equipment arrived, approximately 2000 gallons has entered the sewer.

The remaining acid has been removed. The tank coupling has been replaced with one which will withstand the acid. Since the floor drain is no longer used, it will be sealed.

The open flange vacuum pump will be raised to a height so that no material from the floor will be able to enter. Therefore, any future spills will be contained in the building.

Mr. Purdente will send PVSC a letter as soon as possible outlining a schedule for completing the steps as described above.

J. Sabo

JS/mc 11/28/84 - Called Pat Purdente - He stated that the spill occurred between 12[??] and 1[??] on 11/20/84 and that approximately 2000 gal of acid was spilled into the sewer. He stated that he will send us a letter late this week or early next week outlining steps to prevent recurrence. mc

849160361

E.I. DuPONT DE NEMOURS & CO.
DUPONT
(PITT-CONSOL CHEMICALS - CONOCO)

8491160392

120-873

FD-1

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON, DELAWARE 19898

PETROCHEMICALS DEPARTMENT

May 14, 1986

Mr. Vincent Olivo
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, N.J. 07105

Dear Mr. Olivo:

PITT-CONSOL CHEMICAL COMPANY
PERMIT NUMBER: 20401071-44100-0201

The Pitt-Consol Chemical Company facility at 191 Doremus Avenue, Newark, New Jersey ceased operating in August, 1983. During the next two years efforts were directed toward decontamination of process equipment. Waste water was discharged under existing permits during this time as reported in our quarterly self-monitoring reports to PVSC.

Dismantlement and disposal of the decontaminated equipment proceeded until March 1, 1986. During this period a corporate decision was made to prevent uncontrolled discharge of potentially contaminated water from the site by continuing to discharge water from the sumps to the PVSC per our permit.

During the dismantling period a voluntary program was initiated to investigate the quality and hydrology of the groundwater at the site. This program is continuing.

A groundwater monitoring permit has been applied for and a draft permit issued by NJDEP. (NJPDES Permit No. NJ0060704.)

While the future of this site is uncertain and no immediate plans to build are foreseen, it is known that at times of heavy precipitation the very high water table can result in inundation of portions of the site. Control over the disposal of this excess water, which may be polluted from subsurface deposits, can best be accomplished by occasional pumping of the existing sumps to the PVSC. The quality of this water would be similar to that discharged to the PVSC during the past year or so. Typical quarterly self-monitoring reports show ranges of BOD: 200-400 mg/l, and TSS: 10-100 mg/l.

The attached Exhibit A, is a detailed analysis of the sump discharge of September 14, 1984, during the period of equipment decontamination. While undoubtedly current discharge is of lower concentrations of pollutants the types found should be

similar.

In addition to discharge from the sump to control excess accumulation of surface water, there is expected to be periodic pump tests of monitoring wells on the site, the discharge of which should be to the PVSC.

For reasons described above we request favorable consideration of our attached "Sewer Connection Application."

If you have any questions, please contact Gregory J. Hollod, E. I. du Pont de Nemours and Company, 1007 Market Street, Petrochemicals N-6545, Wilmington, DE. 19898. Phone number 302-774-4788.

Sincerely,

Gregory J. Hollod

Gregory J. Hollod, Ph.D.
Sr. Environmental Engineer

/dc
84
2 Attach.
Exhibit A - Sump Analysis
Exhibit B - Locations of sumps & sewer connection

EXHIBIT A
SUMP ANALYSIS

NEW YORK TESTING LABORATORIES, INC.

CALL BOX 1021, 75 URBAN AVENUE, WESTBURY, N.Y. 11590 • (516) 334-7770 • (212) 297-1449 TWX 510-222-0283

Lab. No. 84-73892

P.O. No. LMD 844 331M

September 26, 1984

REPORT OF TESTS

FOR

E.I. DUPONT DE NEMOUR
1007 MAIN STREET
WILMINGTON, DEL. 19898

Report prepared by:

Remo Gigante
Laboratory Director

CERTIFICATION

We certify that this report is a true report of results obtained from our tests of this material.

Respectfully submitted,

G. J. Horvitz, Chief Officer

Att: Greg Hollod PhD

GJH/jw

RECEIVED
OCT 3 1984

849160365

NEW YORK TESTING LABORATORIES, INC.

Lab No. 84-73892

1.0 INTRODUCTION

The results we obtained on your samples are presented in a tabular format immediately after this introduction. Following the sample results, the Gas Chromatographic/Mass Spectral data generated in the analysis of your samples are included. A Quality Assurance Plan is listed in Paragraph 3.0, which includes objectives, project organization and responsibilities, sampling procedures, analytical procedures, calibration procedures, references and frequencies, data reduction, validation and reporting, internal quality control checks and frequencies, quality assurance performance audits, system audits and frequencies.

Also presented are the GC/MS calibration data and the internal standard, surrogate standard recoveries.

1.1 SAMPLE IDENTIFICATION

The submitted sample received on September 14, 1984 was identified as the following:

Pitt Consol, 9/14

2.0 RESULTS

The results obtained on your samples are listed on the following pages. The compounds of interest are listed with their CAS (Chemical Abstract Services) number, method number, and the method detection limit. When a compound is searched for and cannot be found, it is reported as ND (not detected). When it is found at concentrations lower than the Method Detection Limit it is reported as < (MDL), otherwise the concentration is reported in µg/l.

The data on the recovery of the surrogates spiked into your samples are listed in Paragraph 5.0.

NEW YORK TESTING LABORATORIES, INC.

Lab No 84-73892

VOLATILE COMPOUNDS:

Sample Number: Pitt Consol. 1984

Sample Size: 1 ml + 10 µl

Internal Std. Concs. (total ngs.)	Bromochloromethane	57
	2-Bromo-1-chloropropane	26
Surrogate Std. Concs. (total ngs.)	Deuterochloroform	44
	Deuterobenzene	28
	Deuterotoluene	28

Parameter	Method No.	CAS No.	Method Detection Limit (ppb)*	Found (ppb)
Acrolein	624	107-02-8	100	ND
Acrylonitrile	624	107-13-1	100	ND
Benzene	624	71-43-2	10	68
Bromodichloromethane	624	75-27-4	10	ND
Bromoform	624	75-25-2	10	ND
Bromomethane	624	74-83-9	10	ND
Carbon Tetrachloride	624	56-23-5	10	ND
Chlorobenzene	624	108-90-7	10	< 10
Chlorodibromomethane	624	124-48-1	10	ND
Chloroethane	624	75-00-3	10	ND
2-Chloroethyl vinyl ether	624	110-75-8	10	ND
Chloroform	624	67-66-3	10	< 10
Chloromethane	624	74-87-3	10	ND
1,2-Dichlorobenzene	624	95-50-1	10	ND
1,3-Dichlorobenzene	624	541-73-1	10	ND
1,4-Dichlorobenzene	624	106-46-7	10	ND

ND = Not Detected

NEW YORK TESTING LABORATORIES, INC.

Lab No. 84-73892

VOLATILE COMPOUNDS - cont'd.

Sample Number: Pitt Consol, 9/14

Parameter	Method No.	CAS No.	Method Detection Limit (ppb)*	Found (ppb)
Dichlorodifluoromethane	624	75-71-8	10	ND
1,1-Dichloroethane	624	75-34-3	10	< 10
1-2-Dichloroethane	624	107-06-2	10	ND
1,1-Dichloroethylene	624	75-35-4	10	ND
Trans-1,2-Dichloroethylene	624	156-60-5	10	ND
1,2-Dichloropropane	624	78-87-5	10	ND
1,3-Dichloropropene	624	10061-02-6	10	ND
Ethylbenzene	624	100-41-4	10	66
Methylene Chloride	624	75-09-2	10	ND
1,1,2,2-Tetrachloroethane	624	79-34-5	10	ND
Tetrachloroethylene	624	127-18-4	10	ND
Toluene	624	108-88-3	10	3442
1,1,1-Trichloroethane	624	71-55-6	10	ND
1,1,2-Trichloroethane	624	79-00-5	10	ND
Trichloroethylene	624	79-01-6	10	ND
Trichlorofluoromethane	624	75-69-4	10	ND
Vinyl Chloride	624	75-01-4	10	ND
Total Zylenes	-	-	-	181

ND = None Detected

< = Less than

* EPA published method detection limit

849160369

NEW YORK TESTING LABORATORIES, INC.

Lab No. 84-73892

BASE/NEUTRAL COMPOUNDS

Sample Number: Pitt Consol, 9/14 Final Extract Volume 1 ml

Sample Size : 900 ml

Volume Injected: 2 µl

Internal Std. Concs.(total ngs.) d_{10}-Anthracene 50

Surrogate Std. Concs.(total ngs.) d_8-Naphthalene 50

Parameter	Method No.	CAS #	Method Detection Limit (ppb)*	Found (ppb)
Acenaphthene	625	83-32-9	10	ND
Acenaphthylene	625	208-96-8	10	ND
Anthracene	625	120-12-7	10	ND
Benzo (a) anthracene	625	56-55-3	10	ND
Benzo (b) fluoroanthene	625	205-99-2	10	ND
Benzo (k) fluoroanthene	625	207-08-9	10	ND
Benzo (a) pyrene	625	50-32-8	10	ND
Benzo (g,h,i) perylene	625	191-24-2	25	ND
Benzidine	625	92-87-5	10	ND
Bis (2-chloroethyl) ether	625	111-44-4	25	ND
Bis (2-chloroethoxy) methane	625	111-91-1	10	ND
Bis (2-ethylhexyl) phthalate	625	117-81-7	10	ND
Bis (2-chloroisopropyl) ether	625	39638-32-9	10	ND
4-Bromophenyl phenyl ether	625	101-55-3	10	ND
Butylbenzylphthalate	625	85-68-7	10	ND
2-Chloronaphthalene	625	91-58-7	10	ND

849160370

ND = None Detected

NEW YORK TESTING LABORATORIES, INC.

Lab No. 84-73892

BASE/NEUTRAL COMPOUNDS - cont'd.

Sample Number: Pitt Consol, 9/14

Parameter	Method No.	CAS #	Method Detection Limit (ppb) *	Found (ppb)
4-Chlorophenylphenylether	625	7005-72-3	10	ND
Chrysene	625	218-01-9	10	ND
Dibenzo (a,h) anthracene	625	53-70-3	25	ND
DiButyl phthalate	625	84-74-2	10	ND
3,3' -Dichlorobenzidine	625	91-94-1	10	ND
Diethylphthalate	625	84-66-2	10	ND
Dimethylphthalate	625	131-11-3	10	ND
2,4-Dinitrotoluene	625	121-14-2	10	ND
2,6-Dinitrotoluene	625	606-20-2	10	ND
Di-octyl-phthalate	625	117-84-0	10	ND
1,2-Diphenylhydrazine	625	112-66-7	10	ND
Fluoroanthene	625	206-44-0	10	ND
Fluorene	625	86-73-7	10	ND
Hexachlorobenzene	625	118-74-1	10	ND
Hexachlorobutadiene	625	87-68-3	10	ND
Hexachloroethane	625	67-72-2	10	ND
Hexachlorocyclopentadiene	625	77-47-4	10	ND
Indeno (1,2,3-cd) pyrene	625	193-39-5	10	ND
Isophorone	625	78-59-1	10	ND
Naphthalene	625	91-20-3	10	390
Nitrobenzene	625	98-95-3	10	ND

NEW YORK TESTING LABORATORIES, INC.

Lab No. 84-73892

BASE/NEUTRAL COMPOUNDS - cont'd.

Sample Number: Pitt Consol, 9/14

Parameter	Method No.	CAS #	Method Detection Limit (ppb)*	Found (ppb)
n-Nitrosodimethylamine	625	62-75-9	25	ND
n-Nitrosodi-N-propylamine	625	621-64-7	10	ND
n-Nitrosodiphenylamine	625	86-30-6	10	ND
Phenanthrene	625	85-01-8	10	ND
Pyrene	625	129-00-0	10	ND
1,2,4-Trichlorobenzene	625	120-82-1	10	ND
2,3,7,8-Tetrachlorodibenzo -p-dioxin	625	1746-01-6	--	ND

ND = None Detected

* EPA published method detection limit

NEW YORK TESTING LABORATORIES, INC.

Lab No. 84-73892

ACID COMPOUNDS:

Sample Number: Pitt Consol, 9/14 Final Extract Vol. 1 ml

Sample Size: 900 ml

Volume Injected: 2 µl

Internal Std. Concs. (total ngs.) d10 Anthracene 50

Surrogate Std. Concs. (total ngs.) pentafluorophenol 125

Parameter	Method No.	CAS #	Method Detection Limit (ppb)*	Found (ppb)
4-Chloro-3-methylphenol	625	59-50-7	25*	ND
2-Chlorophenol	625	95-57-8	25	ND
2,4-Dichlorophenol	625	120-83-2	25	ND
2,4-Dimethylphenol	625	105-67-9	25	7403
2,4-Dinitrophenol	625	51-28-5	25	ND
2-Methyl-4-6-dinitrophenol	625	534-52-1	25	ND
2-Nitrophenol	625	88-75-5	25	ND
4-Nitrophenol	625	100-02-7	25	ND
Pentachlorophenol	625	87-86-5	25	ND
Phenol	625	108-95-2	25	16658
2,4,6-Trichlorophenol	625	88-06-02	25	ND

ND = None Detected

*EPA published method detection limit

849160373

NEW YORK TESTING LABORATORIES, INC.

Lab No. 84-73892

PESTICIDE COMPOUNDS:

Sample Number: Pitt Consol, 9/14

Sample Size: 300 mls

Extract Volume 1 ml Volume Inj. 2.0 µl

Parameter	Method No.	CAS #	Limit (ppb)	Found (ppb)
Aldrin	608, 625	309-00-2	10*	ND
α-BHC	608, 625	319-84-6	10	ND
β-BHC	608, 625	319-85-7	10	ND
δ-BHC	608, 625	319-86-8	10	ND
γ-BHC	608, 625	58-89-9	10	ND
Chlordane	608, 625	57-74-9	10	ND
Dieldrin	608, 625	60-57-1	10	ND
α-Endosulfan	608, 625	959-98-8	10	ND
β-Endosulfan	608, 625	33213-65-9	10	ND
Endosulfan sulfate	608, 625	1031-07-08	10	ND
Endrin	608, 625	72-20-8	10	ND
Endrin aldehyde	608, 625	7421-93-4	10	ND
Heptachlor	608, 625	76-44-8	10	ND
Heptachlor Epoxide	608, 625	1024-57-3	10	ND
4,4'-DDT	608, 625	50 29-3	10	ND
4,4'-DDE	608, 625	72-55-9	10	ND
4,4'-DDD	608, 625	72-54-8	10	ND
PCB 1016	608, 625	12674-11-2	10	ND
PCB 1221	608, 625	11104-28-2	10	ND
PCB 1232	608, 625	11141-16-5	10	ND
PCB 1242	608, 625	53469-21-9	10	ND
PCB 1248	608, 625	12672-29-6	10	ND
PCB 1254	608, 625	11097-69-1	10	ND
PCB 1260	608, 625	11096-82-5	10	ND
Toxaphene	608, 625	8001-35-2	10	ND

ND = Not detected

NEW YORK TESTING LABORATORIES, INC.

SAMPLE IDENTIFICATION NO. Pitt Consol, 9/14 Lab No. 84-73892

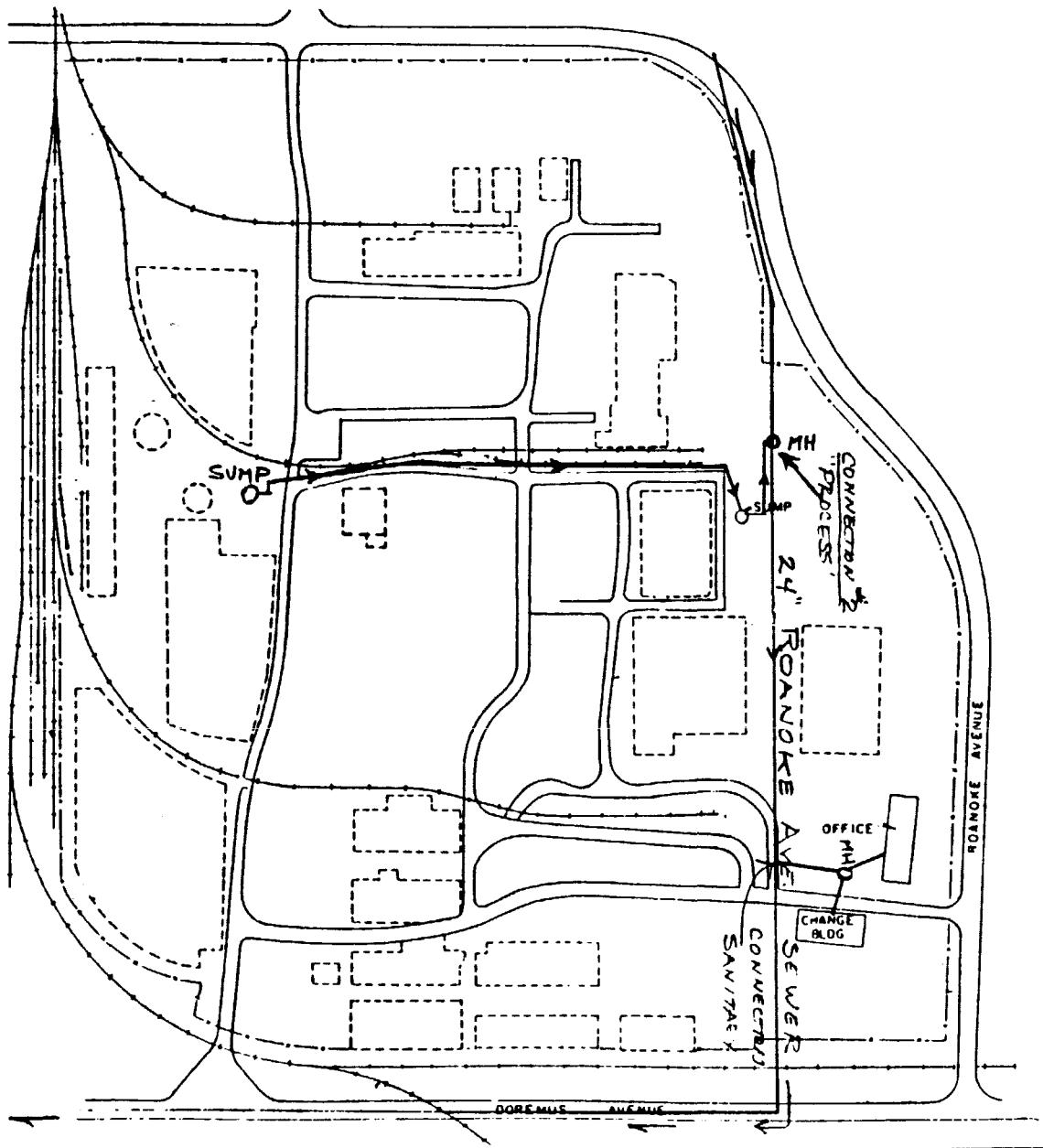
METALS AND PHYSICAL CHEMISTRY

Parameters (ug/l)	Method No.	CAS #	Method Detection Limit*	Found
Cyanide, Total	335.2	57-12-5	20	80
Phenols, Total	420.1	--	5	159 x 1
Antimony	204.1	7440-36-0	200	< 100
Arsenic	206.2	7440-38-2	1	31
Beryllium	210.1	7440-41-7	5	< 3
Cadmium	213.1	7440-43-9	5	< 3
Chromium	218.1	7440-47-3	50	85
Copper	220.1	7550-50-8	20	63
Lead	239.1	7439-92-1	100	103
Mercury	245.1	7439-97-6	0.2	< 0.1
Nickel	249.1	7440-02-0	40	40
Selenium	270.2	7782-49-2	2	2
Silver	272.1	7440-22-4	10	< 6
Thallium	279.1	7440-28-0	100	< 50
Zinc	289.1	7440-66-6	5	230

< = Less than

*EPA published method detection limit

EXHIBIT B



EXPLANATION

- RAILROADS
- ROADS
- FORMER TANK FARM AND FOUNDATIONS
- FENCE
- EXISTING BUILDINGS

SUMPS & SEWER CONNECTIONS

MAY 1986

PITT-CONSOL CHEMICAL CO. SITE
NEWARK, NEW JERSEY
E.I.DuPONT DE NEMOURS & CO.

849160376

Pitt-Consol-Newk

136-9304

DUPONT

ESTABLISHED 1802

E. I. DU PONT DE NEMOURS & COMPANY

INCORPORATED

WILMINGTON, DELAWARE 19898

PETROCHEMICALS DEPARTMENT

July 17, 1986

RECEIVED
JUL 23 1986
PASSAIC VALLEY SEWERAGE COMMISSIONERS
DIRECTOR'S OFFICE

Mr. C. T. Perrapato
Executive Director
Passaic Valley
Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Dear Mr. Perrapato:

This letter is in response to your letter dated July 9, 1986 concerning activity at the Pitt-Consol site on Doremus Avenue in Newark, New Jersey. The necessary material for NJDEP Permit Number 0060704 has been submitted to the State of New Jersey, but no notification has been received by us on the status of this permit.

At the present time we are not discharging any water from the site. The sanitary line connection is in the process of being sealed and the storm water line will be connected in the near future. However, at the present time no water is being discharged to the Passaic River and will not be discharged until the appropriate permit has been obtained.

When I receive the permit package from the state for NJDEP Permit Number #0060704, I will forward the information to your office. In addition, once the storm sewere line has been connected I will notify you.

If you have any questions or require more information do not hesitate to call.

Sincerely,

Gregory J. Hollod

Gregory J. Hollod, Ph.D.
Sr. Environmental Engineer

COMM.	WS
JP	SL
JS	JL
GA	DB
ND	RD
BF	RD
VG	

/dc
11

7/24/86
MG 8/7/86
TM — follow up. We need to take action if they are still discharging. pls

849160377

124-8903

Pitt Consol Newark

PD-1

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED
WILMINGTON, DELAWARE 19898

PETROCHEMICALS DEPARTMENT

June 20, 1986

Mr. T. Mack
Supervisor of Industrial Operations
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, N.J. 07105

Dear Mr. Mack:

Please do not renew the Sewer Connection Permit for the Pitt-Consol site. There is no manufacturing activity on the site. All surface water from precipitation will be diverted to the Passaic River via the existing storm sewer.

I appreciate your assistance with this action.

Sincerely,

Gregory J. Hollod

Gregory J. Hollod, Ph.D.
Sr. Environmental Engineer

/dc
14

849160378

FORM APPROVED
OMB No. 158-R0100

FOR AGENCY USE

STANDARD FORM A–MUNICIPAL

SECTION IV. INDUSTRIAL WASTE CONTRIBUTION TO MUNICIPAL SYSTEM

Submit a description of each major industrial facility discharging to the municipal system, using a separate Section IV for each facility description. Indicate the 4 digit Standard Industrial Classification (SIC) Code for the industry, the major product or raw material, the flow (in thousand gallons per day), and the characteristics of the wastewater discharged from the industrial facility into the municipal system. Consult Table III for standard measures of products or raw materials. (see instructions)

1. Major Contributing Facility (see instructions)

Name	401a	PITT-CONSOL CHEMICAL CO.
Number& Street	401b	191 DOREMUS AVENUE
City	401c	NEWARK
County	401d	ESSEX
State	401e	NEW JERSEY
Zip Code	401f	07105

2. Primary Standard Industrial Classification Code (see instructions) — 402: 2869

3. Principal Product or Raw Material (see instructions)

			Quantity		Units (See Table III)
Product	403a	CRESOLS, & XYLENOLS	403c		403e
Raw Material	403b	PHENOLS & METHANOLS	403d		403f

4. Flow Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.

404a: ~~141~~ 144 thousand gallons per day

404b: ☐ Intermittent (int) ☒ Continuous (con)

5. Pretreatment Provided Indicate if pretreatment is provided prior to entering the municipal system — 405: ☐ Yes ☒ No

6. Characteristics of Wastewater (see instructions)

	Parameter Name	COLOR	TS	TSS	TURB.	CHLOR.	SULFATES	BOD	COD	T
406a	Parameter Number	00100	00500	00530	00070	00940	00945	00310	00340	00
406b	Value	7200	340	28	560	107	133	4200	6800	1
		Cr (Tot)	Zn	PHENOLS						
		01034	01092	32730						
		1.5	.52	1100						

849160379 5/81

EPA Form 7550-22 (7-73)

GPO 965-706

This section contains 1 page.

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 WILSON AVENUE
NEWARK, N. J. 07105
(201) 344-1800

September 18, 1980

Pitt-Consol Chemicals
Conoco Inc.
191 Doremus Avenue
Newark, New Jersey 07105

ATTENTION: William F. Revelt

Dear Mr. Revelt:

As requested, we are attaching a copy of the lab results from our sampling study at your plant.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONER

Harold Carscadden,
Technician

HC/saj

849160380

SAMPLE ID -G50 July 25, 1979 11:50 AM

Pitt Consol, main sanitary sewer on property, Newark

Tan translucent liquid
pungent industrial odor
fine tannish suspended matter
Slight tannish-brown sediment

Turbidity - 304
pH - 2.2
TSS - 70
VSS - 70
MSS - 0
Chlorides - 870
COD - 3440
H_2SO4 present
Orth-Phosphate - 0
TOC - 1080
BOD - 1230

Taken by: V. Roselli
T. Mack

Edward Rys
Edward Rys, Chemist I

ER:jc

APPROVED
Director of Sanitation Control

849160381

SAMPLE ID-G49 July 25, 1979 11:55 AM

Pitt Consol, process water as it enters main sanitary sewer, Newark

Tan translucent liquid
Fine tan suspended matter
Industrial odor
Slight tannish-brown sediment

Turbidity - 236
pH - 7.2
TSS - 25
VSS- 20
MSS - 5
Chlorides - 100
COD - 5120
TOC - 1840
BOD - 3060

Taken by: V. Roselli
T. Mack

Edward Rys, Chemist I

ER:jc

APPROVED

Director of Sanitation Control

849160382

SAMPLE ID-G51 July 25, 1979 12:00 NOON

Pitt Consol, from round sump outlet after skimming, Newark

Tan translucent liquid
Trace of fine tan suspended matter
Industrial odor
Trace of tan sediment

Turbidity - 264
pH - 7.2
TSS - 37
VSS - 37
MSS - 0
Chlorides - 100
COD 4640
TOC - 1760
BOD - 1920

Taken by: T. Mack
V. Roselli

Edward Rys

Edward Rys, Chemist I

ER:jc

APPROVED

Director of Sanitation Control

849160383

July 25, 1979

Solid Tar-Like Sample From Pitt-Consol ID-G52

Sampled by T. Mack & V. Roselli

This black solid tar-like mass contains granular sandy particles. The material is very soft as well as easily friable and appears to be material from fairly recent production.

1. The material burns readily and supports combustion until completely consumed-leaving behind a very gritty sandy residue. While burning it gives off an odor resembling burning rubber.

2. It is soluble in both alkyl and aryl solvents as well as both hydrophobic and hydrophilic solvents. Three solvents were used; benzol, carbon tetrachloride and acetone.

3. The dissolved organic substance was filtered off leaving behind a residue of granular sandy particles as well as a large number of fibers.

4. The sample was dried and burned with the following results:

Percent solids	84%
Percent volatile	27.9%
Percent mineral	72.1%

Alexander S. Goldberg

ASG:jc

849160384

SAMPLE NO. ID-G56 July 27, 1979 9:50 AM

Pitt Consol, Main Line Sanitary Sewer on Property, Newark

Tan translucent liquid
Fine amber tan suspended matter
Pungent industrial odor
Moderate amber-tan sediment

pH 2.6

Taken by: V. Roselli
J. Dondero

Edward Rys

Edward Rys, Chemist I

ER:jc

APPROVED

Director of Sanitation Control

849160385

Curry L. Miller
Plant Manager

Pitt-Consol Chemicals
Continental Oil Company
191 Doremus Avenue
Newark, New Jersey 07105
(201) 344-3800

March 10, 1975

Mr. Walter J. Davis, Chairman
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Dear Sir:

Attached is the completed Waste Effluent Survey for the Pitt-Consol Chemical Company Plant as requested in your letter of February 14, 1975.

If there are any further questions, please let us know.

Sincerely,

Curry L. Miller

mp
Attachment

OMB No. 15-R

FOR AGENCY U

STANDARD FORM A–MUNICIPAL MCI Flow

SECTION IV. INDUSTRIAL WASTE CONTRIBUTION TO MUNICIPAL SYSTEM

Submit a description of each major industrial facility discharging to the municipal system, using a separate Section IV for each facility description. Indicate the 4 digit Standard Industrial Classification (SIC) Code for the industry, the major product or raw material, the flow (in thousand gallons per day), and the characteristics of the wastewater discharged from the industrial facility into the municipal system. Consult Table III for standard measures of products or raw materials. (see instructions)

1. Major Contributing Facility (see instructions)

Name	401a	Pitt-Consol Chemical Co.
Number& Street	401b	191 Doremus Avenue
City	401c	Newark
County	401d	Essex
State	401e	New Jersey
Zip Code	401f	07101

2. Primary Standard Industrial Classification Code (see instructions) — 402: 2869

3. Principal Product or Raw Material (see instructions)

			Quantity		Units (S Table II
Product	403a	Cresylic Acids, Anti Oxidants	403c	403e	
Raw Material	403b	Phenol, Methanol Cresylic Acids	403d	403f	

4. Flow Indicate the volume of water discharged into the municipal system in thousand gallons per day and whether this discharge is intermittent or continuous.
   - 404a: 72 thousand gallons per day (7 day week)
   - 404b: ☐ Intermittent (int) ☒ Continuous (con)

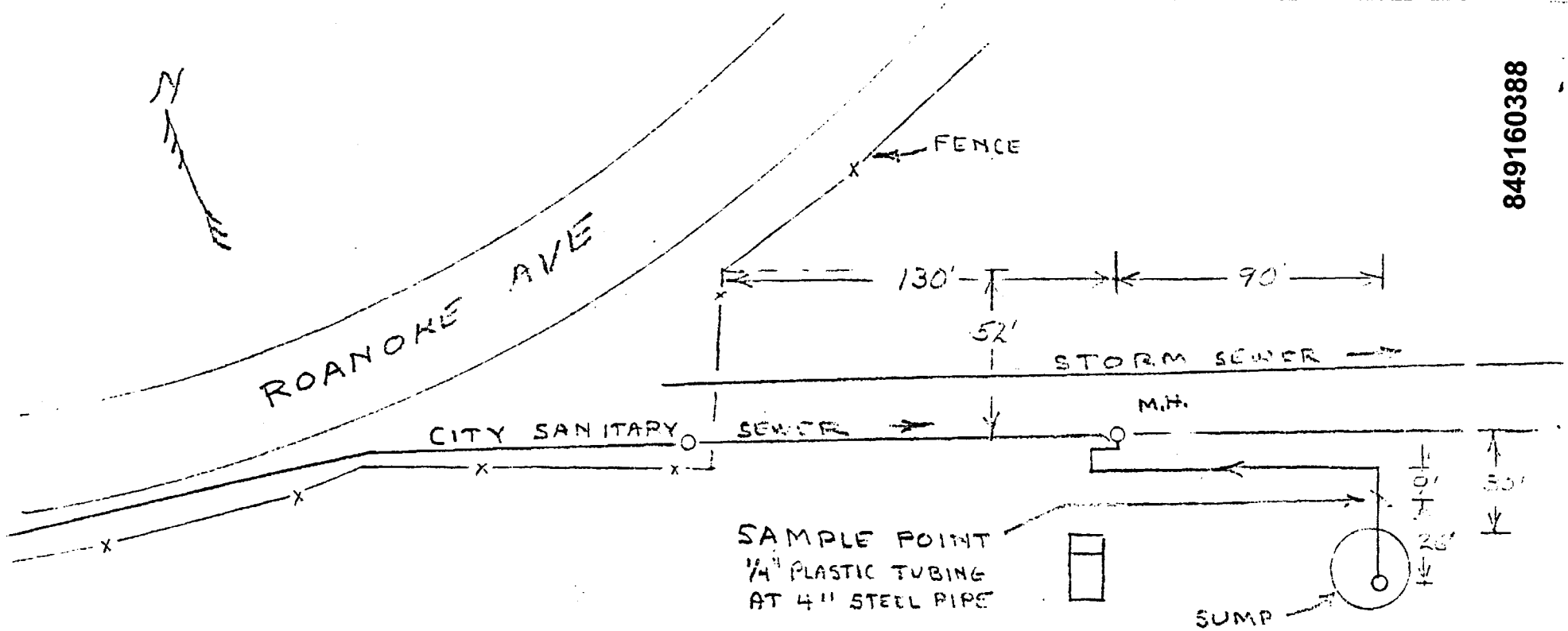
5. Pretreatment Provided Indicate if pretreatment is provided prior to entering the municipal system — 405: ☐ Yes ☒ No

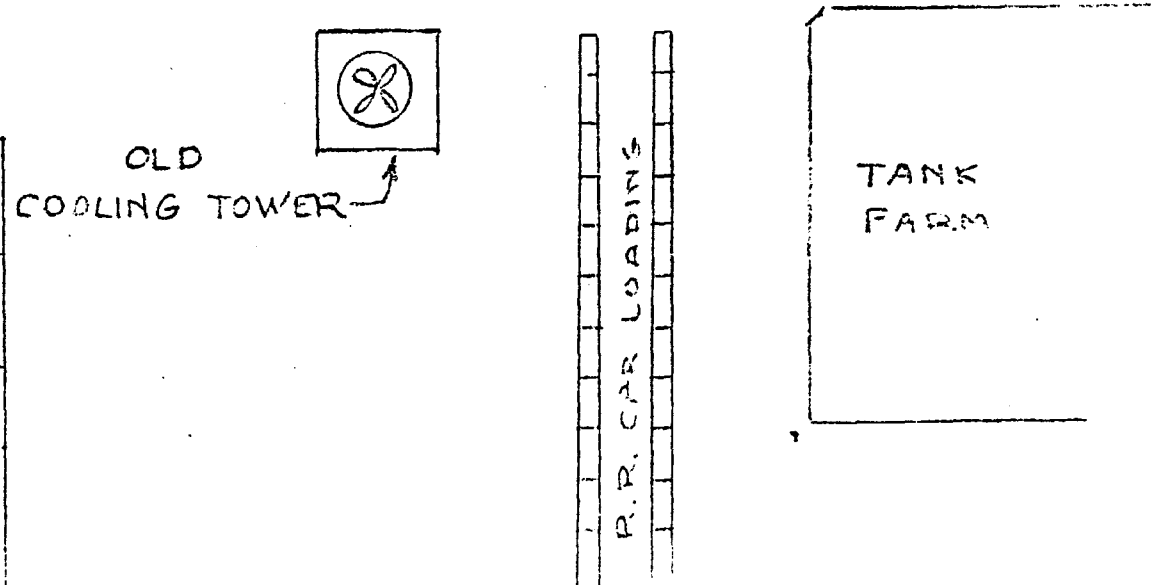
6. Characteristics of Wastewater (see instructions)

	Parameter Name	PHENOL	CRESOL	XYLENE	UC CN	TS	OIL	COD	BOD
406a	Parameter Number	32730	---	---	00720	00500	00550	00340	00
406b	Value	780	403	168	0.014	2375	286	2340	73

TSS 00530 61 — Cl 00940 34.5 — TOC 00680 1540 — Fe 01045 0.58

849160387





SEWER SAMPLING POINT

PITT-CONSOL CHEMICALS

NEWARK N.J.

SCALE : 1" = 50'

DRWN WK DATE : 3-11-74

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800

July 25, 1977

Charles C. Carella, Esq.
Gateway 1 - 24th Floor
Newark, New Jersey

Re: Pitt-Consol Chemicals
Newark, New Jersey

Dear Mr. Carella:

Enclosed you will find a letter from Pitt-Consol Chemicals, which is self-explanatory. We do not believe we need a minimum notice, and as far as we are concerned, any industry could withdraw with an extremely short notice. I think, however, in order that paper work be processed, it might be proper to state a 30 day notice would be considered sufficient, although, I do not believe our permit need be modified to state this.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

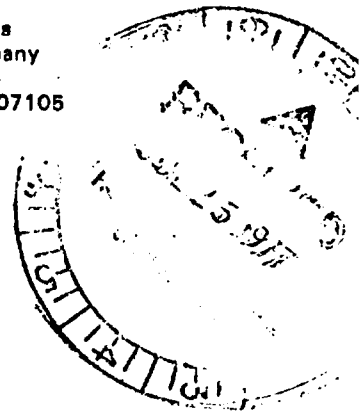
S. A. Lubetkin,
Chief Engineer

SAL/ipg

CONOCO

Curry L. Miller
Plant Manager

Pitt-Consol Chemicals
Continental Oil Company
191 Doremus Avenue
Newark, New Jersey 07105
(201) 344-3800



July 22, 1977

Mr. Seymour Lubetkin
Chief Engineer
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Dear Mr. Lubetkin:

As an industrial user, we wish to continue discharging industrial waste water into the City of Newark sanitary sewer and thereby to the Passaic Valley Sewerage treatment plant. Therefore, the Industrial Sewer Connection Application for our plant has been completed.

Two questions need to be resolved before we can submit the application, however. We are a wholly owned affiliate of Continental Oil Company and control of this plant is through the Chemical Division of Continental Oil Company. Therefore, the individual we propose to sign the application is a Vice President of Continental Oil Company's Chemical Division who is in charge of all chemical operations. It is our opinion that the authority delegated to a Vice President is sufficient that no resolution from the board of directors should be required.

Pitt-Consol Chemical Company has no board of directors, and obtaining a resolution from Continental Oil Company's board will be very time consuming and seems inappropriate considering the size of the company. Is the signature of the Vice President sufficient without the resolution?

The other question concerns terms of the agreement. I note in the rules and regulations that the Passaic Valley Sewerage Commission has the right to change permit class or cancel permits after giving six months notice. It is also conceivable that an industry could decide to withdraw from the system due to economics, etc. Is there any minimum notice specified for such a situation? In other words, is there a minimum term to this agreement?

Thank you for considering these questions, and I look forward to your reply so that the permit application can be submitted.

Respectfully yours,

Curry L. Miller

Curry L. Miller
Plant Manager

mp